

Floodlight Summary:

Report based on lamp delivering 1000 lumens.

Maximum Intensity	593.9 cd per klm.
(Luminaire orientation as tested.)	15.0 degrees vertical
	-5.0 degrees horizontal

Beam Spread	At 10% of Imax	122.9V x 121.3H
	At 50% of Imax	81.4V x 80.7H
	At 90% of Imax	61.8V x 63.1H

Beam Flux	Total	999.2 lumens per klm.
	To 10% of Imax	940.7 lumens per klm.
	To 50% of Imax	694.1 lumens per klm.
	To 90% of Imax	350.5 lumens per klm.

Upward LOR	0.0 %
Downward LOR	99.9 %

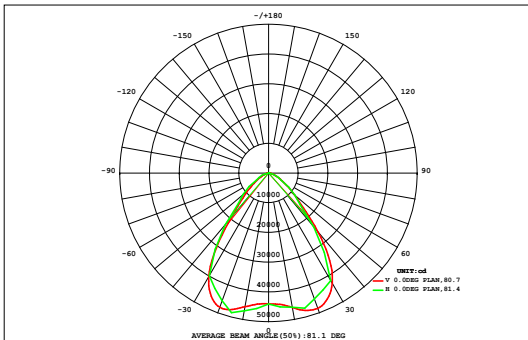
Luminaire Efficiency (Light Output Ratio)	100.0 %
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H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:27 July 2023

V(B) Range:-75 - 75DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.446  
Humidity:65.0%  
Test Distance:7.850m [K=1.0000]  
Remarks:

**LUMINAIRE PHOTOMETRIC TEST REPORT**

Test:U:277.03V I:1.7890A P:495.60W PF:0.9653 Freq:49.98Hz		
Lamp Flux:81912.6x1 lm		
NAME: ASD-UHB2-HE-500D50-BK	TYPE:	
MFR.: ASD LIGHTING CORP		



DATA OF LAMP		Eff:165.28lm/W	
MOD:ASD-UHB2-HE-500D50-BK		Imax (cd)	48652
NOMINAL POWER (W)	500	AVAILABILITY (%)	94.2
RATED VOLTAGE (V)	277	Avai. FLUX (lm)	77126
NOMINAL FLUX (lm)	81912.6	LOR (%)	100.0
LAMPS INSIDE	1	TOTAL FLUX (lm)	81913
TEST VOLTAGE (V)	277	θ @50% (H, V)	81,81DEG

VERTICAL (DEG)	AREA FLUX DIAGRAM																UNIT: lm		Φ t	Φ a
	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.01	0.01	0.01	0.01	0.00	0.15	0.00
90	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.01	0.01	0.01	0.01	0.00	0.15	0.00
80	0.02	0.25	2.04	5.59	10.8	16.5	21.6	26.4	29.1	29.2	27.3	23.2	17.8	12.3	6.73	2.57	0.45	0.03	232	0.00
70	0.08	2.02	8.62	19.6	36.4	58.1	77.4	98.6	111	109	102	80.6	58.0	38.7	20.8	8.94	2.24	0.12	831	0.00
60	0.19	3.82	14.4	33.1	63.2	105	150	198	224	225	204	158	109	68.6	35.1	15.0	3.92	0.24	1612	1097
50	0.39	5.81	20.9	51.1	102	180	277	369	426	430	378	288	189	110	52.5	21.2	5.84	0.41	2909	2660
40	0.57	7.36	27.6	72.8	156	299	533	791	932	940	823	583	330	170	76.0	29.0	7.56	0.60	5778	5602
30	0.74	8.74	33.9	93.7	213	446	827	1167	1324	1323	1174	859	497	231	98.7	36.0	9.04	0.75	8344	8206
20	0.88	9.77	38.7	112	275	654	1137	1398	1477	1468	1384	1160	715	296	120	41.7	10.1	0.87	10299	10180
10	0.95	10.2	40.2	119	306	751	1209	1409	1407	1382	1367	1233	806	335	127	42.3	10.3	0.91	10558	10440
0	0.98	10.3	40.9	122	320	776	1223	1400	1375	1351	1381	1273	839	337	127	41.7	10.2	0.91	10628	10508
-10	0.95	10.1	40.1	116	284	676	1140	1385	1438	1425	1415	1216	725	285	114	38.5	9.55	0.85	10318	10195
-20	0.85	9.09	35.1	96.6	224	489	842	1147	1293	1316	1220	915	481	218	94.2	33.7	8.52	0.72	8423	8280
-30	0.71	7.89	29.2	75.4	164	311	567	854	1018	1039	898	589	296	157	74.1	27.9	7.29	0.56	6115	5933
-40	0.55	6.43	22.3	53.7	110	196	304	396	449	445	377	269	175	99.6	49.6	20.3	5.67	0.38	2980	2692
-50	0.38	4.62	16.1	36.6	71.0	118	172	226	251	249	217	162	110	65.2	33.7	14.6	3.89	0.24	1752	1334
-60	0.20	2.85	10.1	21.4	38.5	57.4	76.9	96.8	99.7	101	90.7	70.6	54.8	35.4	19.5	8.90	2.19	0.14	787	0.00
-70	0.11	1.22	4.49	10.4	18.6	26.7	35.4	40.9	42.2	42.6	38.1	31.9	24.6	16.3	8.87	3.41	0.63	0.07	346	0.00
-80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	-90	-80	-70	-60	-50	-40	-30	-20	HORIZONTAL (DEG)	20	30	40	50	60	70	80	90			
Φ t	8.55	100	385	1040	2392	5161	8593	11002	11895	11874	11096	8913	5429	2476	1057	386	97.4	7.81	81913	---
Φ a	0.00	0.00	40.1	599	2056	4859	8281	10704	11612	11580	10808	8642	5137	2131	630	47.8	0.00	0.00	---	77126

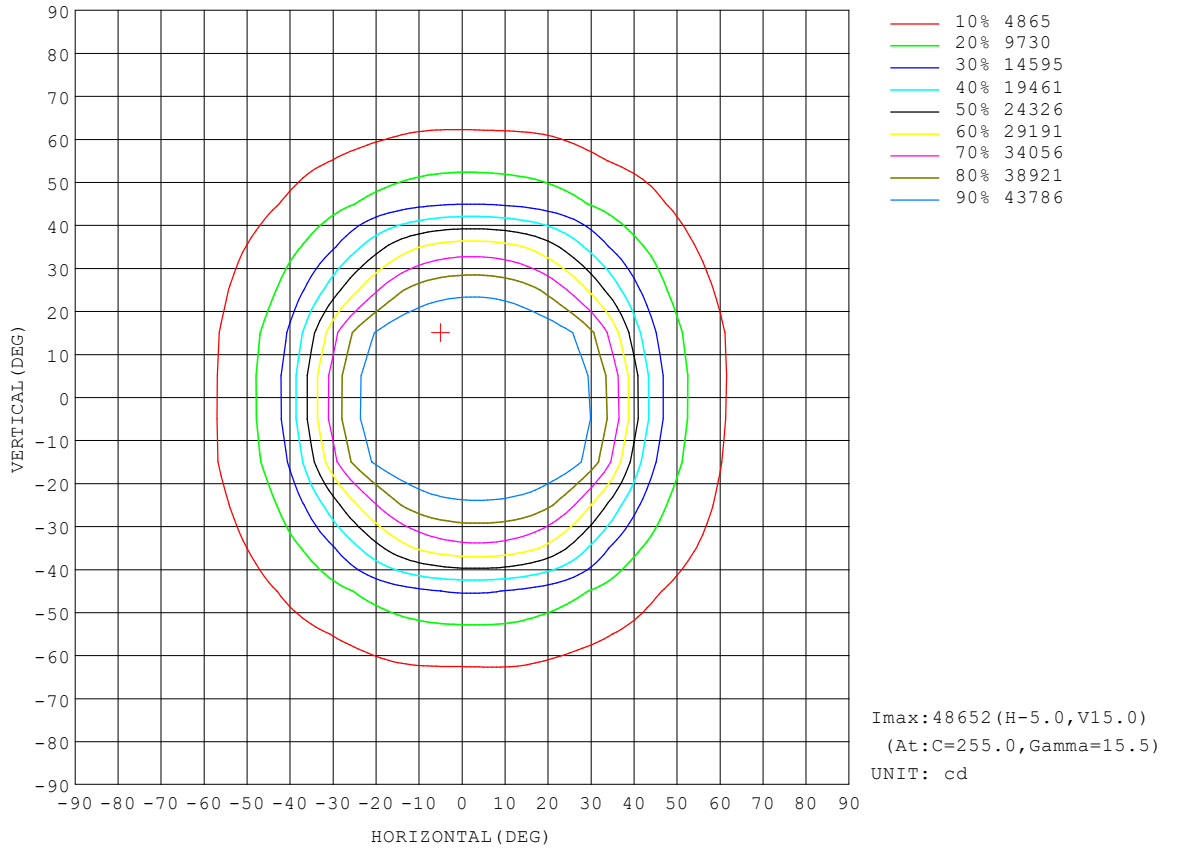
one-half-peak spread: U:26.1,D:25.6 , L:23.0,R:19.9 NEMA Beam Type: Type 6

H(β) Range:-90 - 90DEG  
H(β) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:27 July 2023

V(B) Range:-75 - 75DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.446  
Humidity:65.0%  
Test Distance:7.850m [K=1.0000]  
Remarks:

**ISOCANDELA DIAGRAM**

Test:U:277.03V I:1.7890A P:495.60W PF:0.9653 Freq:49.98Hz		
Lamp Flux:81912.6x1 lm		
NAME: ASD-UHB2-HE-500D50-BK	TYPE:	
MFR.: ASD LIGHTING CORP		

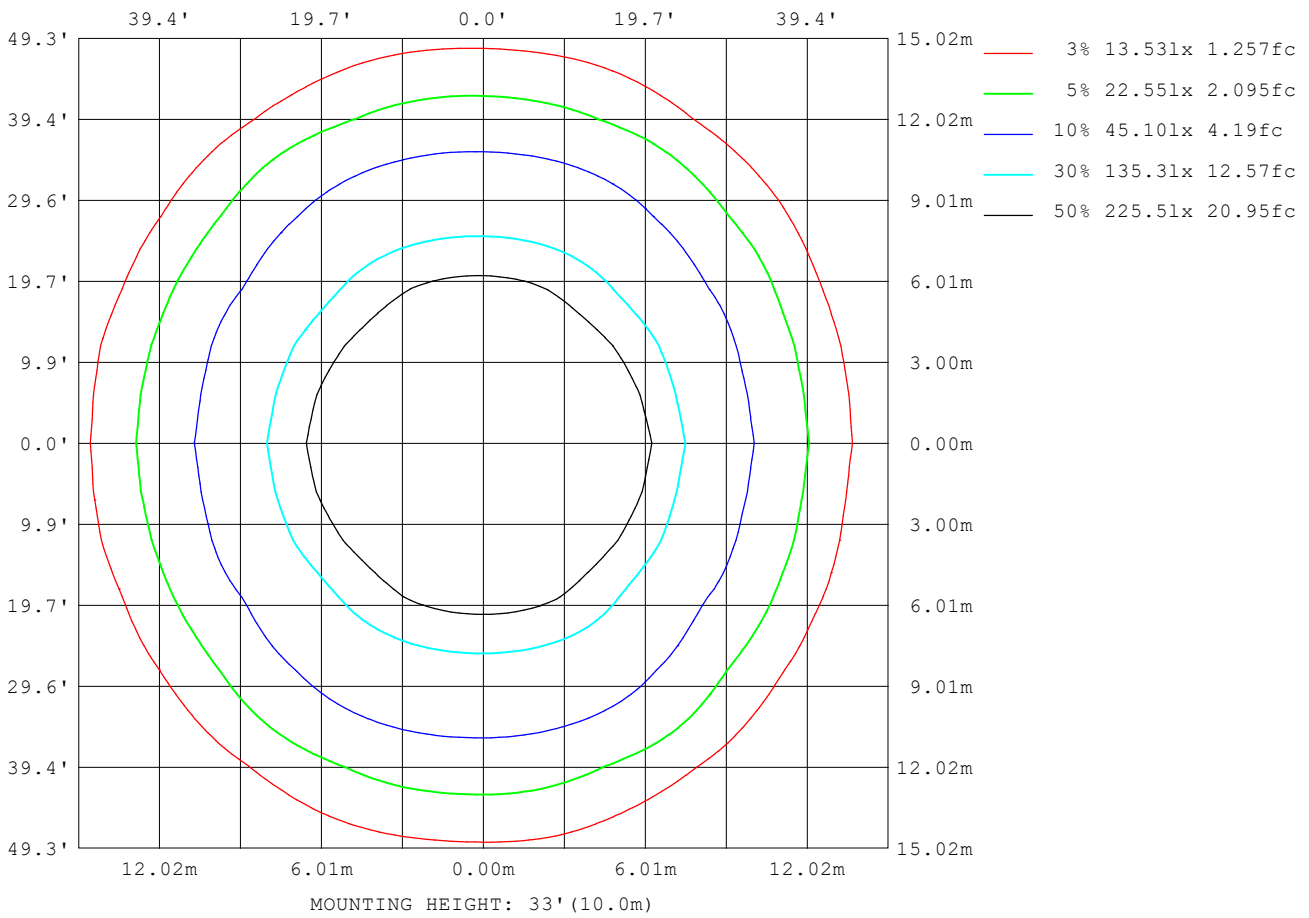


H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:27 July 2023

V(B) Range:-75 - 75DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.446  
Humidity:65.0%  
Test Distance:7.850m [K=1.0000]  
Remarks:

**ISOLUX DIAGRAM**

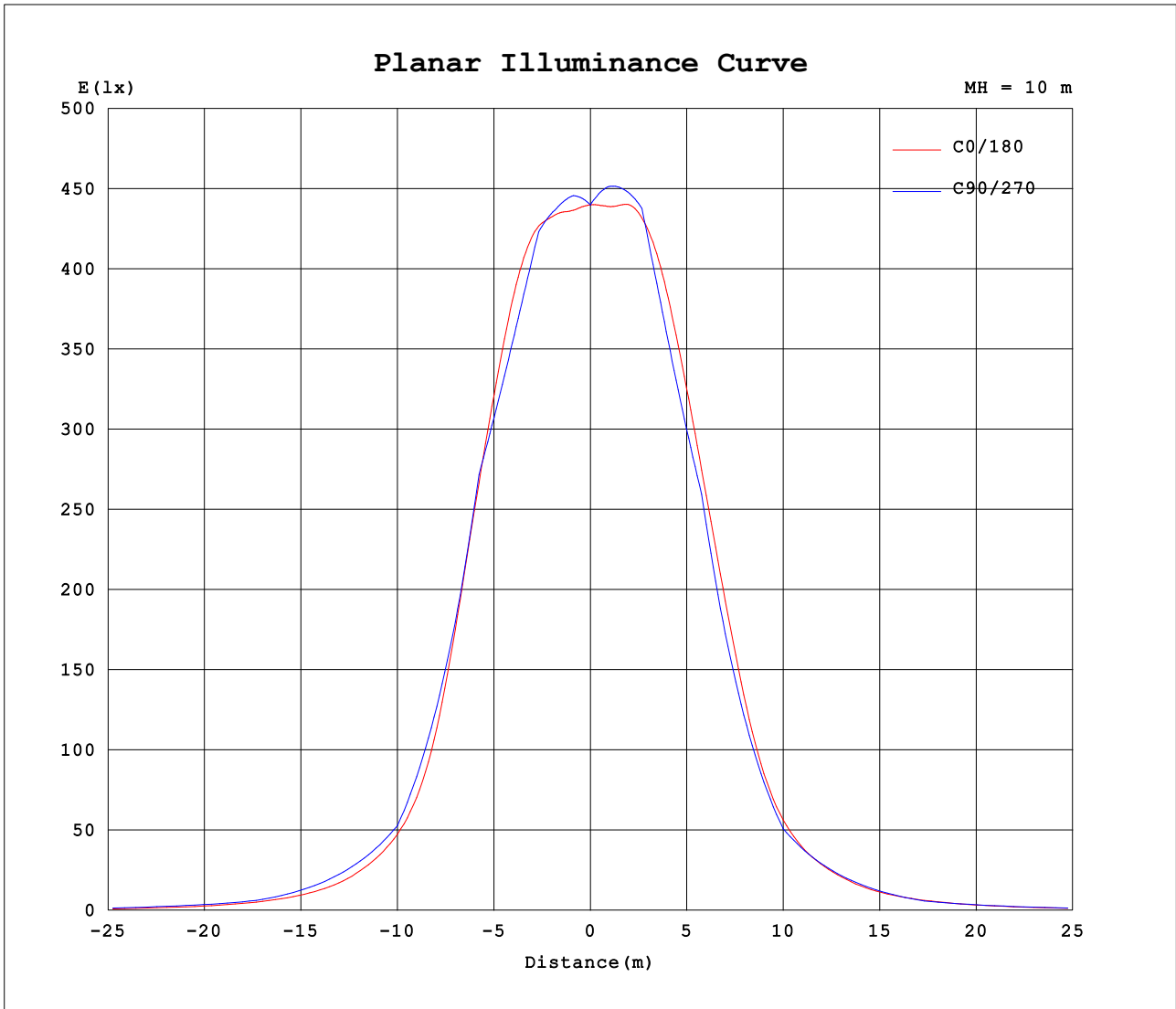
<b>Test:U:277.03V I:1.7890A P:495.60W PF:0.9653 Freq:49.98Hz</b> <b>Lamp Flux:81912.6x1 lm</b>		
<b>NAME: ASD-UHB2-HE-500D50-BK</b>	<b>TYPE:</b>	
<b>MFR.: ASD LIGHTING CORP</b>		



**H( $\beta$ ) Range:-90 - 90DEG**  
**H( $\beta$ ) Interval: 1.0DEG**  
**Test Speed: HIGH**  
**Temperature:25.3DEG**  
**Operators:DAMIN**  
**Test Date:27 July 2023**

**V(B) Range:-75 - 75DEG**  
**V(B) Interval: 5.0DEG**  
**Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.446**  
**Humidity:65.0%**  
**Test Distance:7.850m [K=1.0000]**  
**Remarks:**

**Planar Illuminance Curve**

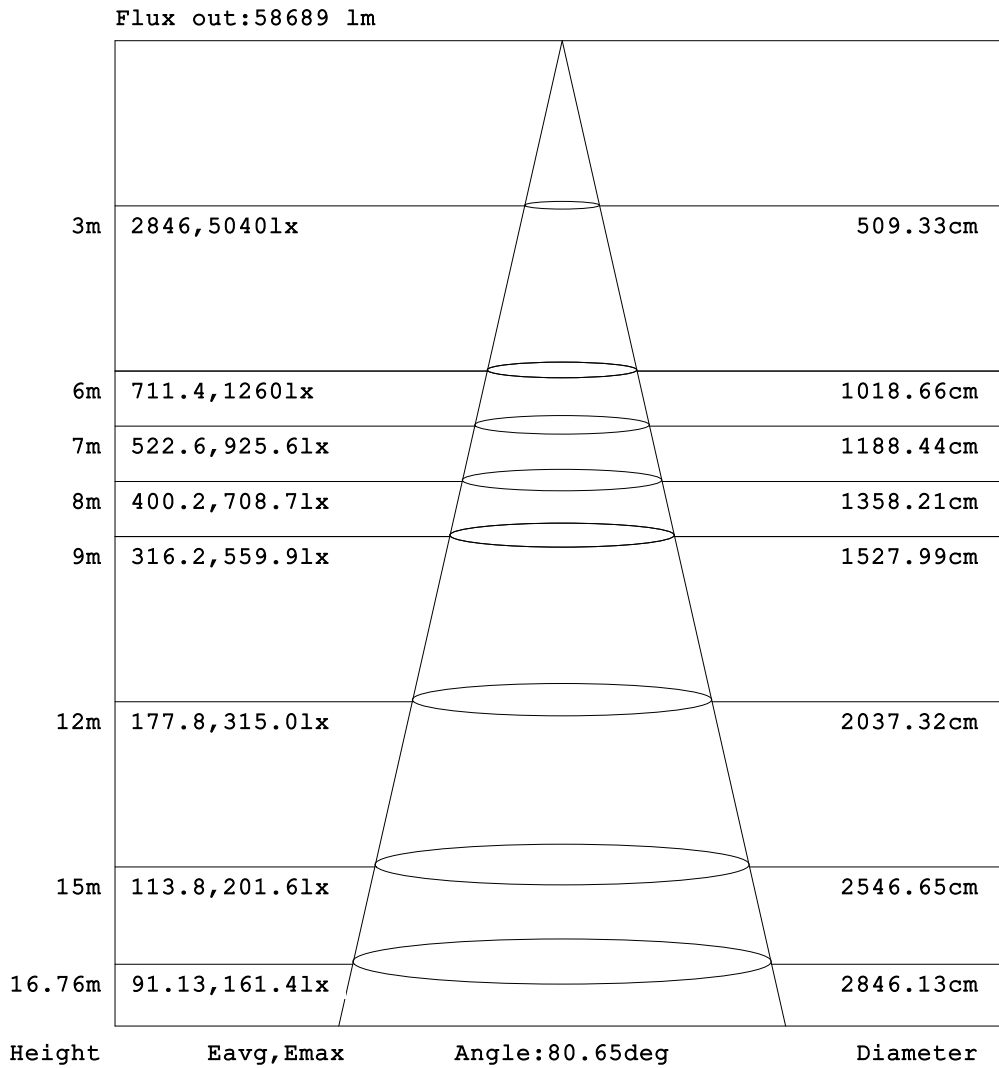


H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:27 July 2023

V(B) Range:-75 - 75DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.446  
Humidity:65.0%  
Test Distance:7.850m [K=1.0000]  
Remarks:

**AAI Figure**

Test:U:277.03V I:1.7890A P:495.60W PF:0.9653 Freq:49.98Hz		
Lamp Flux:81912.6x1 lm		
NAME: ASD-UHB2-HE-500D50-BK	TYPE:	
MFR.: ASD LIGHTING CORP		



**Note:**The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:27 July 2023

V(B) Range:-75 - 75DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.446  
Humidity:65.0%  
Test Distance:7.850m [K=1.0000]  
Remarks:

**Photometric Data Table [cd]**

G/C	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0
0.0	43995	43995	43995	43995	43995	43995	43995	43995	43995	43995
2.5	43998	44038	44077	44116	44153	44189	44225	44258	44292	44325
5.0	44161	44224	44283	44339	44392	44443	44492	44538	44589	44642
7.5	44705	44746	44773	44792	44804	44823	44845	44871	44908	44988
10.0	45444	45444	45424	45387	45338	45280	45244	45393	45524	45624
12.5	46305	46252	46170	46066	45953	45944	46127	46283	46408	46496
15.0	47351	47188	46990	46774	46630	46823	47017	47197	47358	47280
17.5	48011	47837	47632	47383	47367	47484	47668	47850	47817	47703
20.0	48108	48028	47930	47789	47674	47694	47843	48022	48123	48102
22.5	47497	47633	47785	47553	47236	47140	47595	47965	48240	47192
25.0	46066	46565	47117	46424	45796	46230	47098	47731	46192	45111
27.5	43959	44830	45663	44224	43390	45023	46413	44829	43239	42413
30.0	41031	42426	42953	40924	41221	43544	43213	40791	39608	40298
32.5	36995	39190	39135	36320	38603	41646	38155	35778	36904	37947
35.0	31879	35064	33996	30908	35569	35648	32077	32477	33999	33604
37.5	26023	30121	27895	26635	32187	28728	27020	29142	28984	27586
40.0	20583	24938	21786	22585	25629	21609	23467	24812	22569	22323
42.5	16461	20212	16738	19066	19151	17528	20482	18795	17229	19998
45.0	13441	16476	13092	16219	14249	15229	16066	13637	15457	17818
47.5	11271	13280	11255	13242	11255	13502	12193	12124	13964	13673
50.0	9384	10881	9818	10480	10026	10706	9785	10982	10811	10181
52.5	7619	8843	8530	8157	8943	8195	8798	9018	8231	8775
55.0	6271	7045	7397	6356	7524	6741	7742	6913	7164	7577
57.5	5163	5616	6350	5679	5835	6087	5872	5763	6205	6110
60.0	4201	4432	4924	5142	4616	5132	4566	5054	4908	4932
62.5	3402	3413	3700	4183	4156	3817	4027	3978	3950	4370
65.0	2728	2755	2793	3050	3469	3150	3262	3123	3505	3583
67.5	2183	2367	2521	2534	2410	2733	2444	2778	2768	2605
70.0	1714	2050	2203	2265	2092	1974	2182	2136	2009	2251
72.5	1331	1713	1458	1464	1643	1678	1649	1592	1789	1916
75.0	1027	1154	1229	1302	1221	1294	1235	1406	1402	1408
77.5	744.2	825.4	877.0	840.9	980.0	949.3	1011	975.4	999.4	1064
80.0	461.1	687.7	726.6	714.5	668.6	690.2	639.4	699.8	750.3	685.9
82.5	213.4	377.3	350.7	392.4	383.9	400.3	433.8	344.2	226.1	92.61
85.0	51.87	175.8	151.4	139.5	184.8	108.9	0	0	0	0
87.5	32.69	33.88	38.75	0	0	0	0	0	0	0
90.0	33.81	0	0	0	0	0	0	0	0	0
G/C	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	90.0	95.0
0.0	43995	43995	43995	43995	43995	43995	43995	43995	43995	43995
2.5	44357	44386	44413	44438	44463	44487	44507	44524	44537	44552
5.0	44692	44743	44797	44847	44898	44945	44991	45038	45079	45130
7.5	45071	45143	45202	45253	45297	45332	45367	45404	45441	45495
10.0	45703	45750	45772	45784	45787	45782	45777	45782	45804	45841
12.5	46546	46499	46385	46295	46241	46229	46252	46301	46378	46474
15.0	47116	46951	46803	46688	46619	46619	46693	46808	46953	47136
17.5	47530	47345	47053	46629	46316	46103	45985	45958	46016	46177
20.0	47571	46852	46319	45905	45601	45375	45204	45096	45080	45151
22.5	46344	45755	45362	45034	44763	44555	44391	44283	44231	44221
25.0	44435	44297	44173	43980	43807	43666	43554	43471	43382	43272
27.5	42662	42820	42852	42727	42578	42562	42602	42631	42603	42474
30.0	40834	41017	40689	40690	40918	41250	41581	41775	41823	41681
32.5	37797	37475	37716	38277	38239	38036	37753	37470	37270	37169
35.0	32952	33215	34141	34414	34259	33910	33472	33048	32718	32496
37.5	27849	29721	30626	30738	30044	29385	28881	28526	28317	28232
40.0	24941	26732	26588	25804	25092	24544	24188	23980	23917	24005
42.5	22464	22049	21412	20725	20391	20100	19807	19555	19438	19506
45.0	17555	16980	16884	16797	16412	15960	15520	15144	14959	14991
47.5	13058	13582	13637	13193	13094	13230	13317	13327	13304	13271
50.0	10889	11092	11043	11125	11242	11401	11549	11626	11649	11689
52.5	9189	9202	9215	9275	9572	9855	10001	10011	9980	9998
55.0	7554	7501	7719	8045	8330	8511	8515	8405	8311	8300
57.5	6070	6434	6695	6918	6962	6980	6912	6772	6666	6669
60.0	5339	5588	5492	5378	5314	5328	5285	5138	5021	5043
62.5	4548	4381	4107	3903	4142	4417	4529	4475	4406	4403
65.0	3442	3289	3358	3490	3701	3905	3931	3851	3790	3802
67.5	2767	2905	2958	3055	3169	3285	3303	3249	3199	3204
70.0	2450	2476	2444	2464	2525	2613	2667	2648	2607	2605
72.5	1942	1941	1911	1921	1967	2028	2058	2033	2002	2006
75.0	1449	1488	1482	1469	1476	1476	1455	1418	1396	1407
77.5	1101	1091	1003	917.5	854.9	800.5	753.6	715.4	698.0	710.0
80.0	576.4	458.3	345.6	246.5	163.5	94.35	42.37	10.52	0	10.43
82.5	0	0	0	0	0	0	0	0	0	0
85.0	0	0	0	0	0	0	0	0	0	0

H(β) Range:-90 - 90DEG  
H(β) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:27 July 2023

V(B) Range:-75 - 75DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.446  
Humidity:65.0%  
Test Distance:7.850m [K=1.0000]  
Remarks:

**Photometric Data Table [cd]**

87.5	0	0	0	0	0	0	0	0	0	0
90.0	0	0	0	0	0	0	0	0	0	0
G/C	100.0	105.0	110.0	115.0	120.0	125.0	130.0	135.0	140.0	145.0
0.0	43995	43995	43995	43995	43995	43995	43995	43995	43995	43995
2.5	44563	44569	44571	44568	44562	44550	44533	44509	44481	44448
5.0	45172	45212	45243	45264	45280	45279	45273	45256	45220	45170
7.5	45549	45606	45678	45756	45855	45966	46089	46217	46293	46233
10.0	45883	45941	46022	46129	46259	46414	46586	46768	46953	47128
12.5	46566	46650	46722	46775	46809	46838	46978	47203	47406	47577
15.0	47316	47469	47581	47641	47653	47641	47630	47648	47731	47859
17.5	46425	46763	47177	47626	48078	48118	47951	47861	47845	47905
20.0	45318	45590	45948	46354	46758	47116	47474	47587	47475	47501
22.5	44263	44372	44583	44923	45364	45651	45930	46252	46572	46474
25.0	43149	43033	42980	43017	43221	43641	44200	44389	44556	44712
27.5	42246	41913	41467	40863	40567	40657	41151	42171	42297	42255
30.0	41368	40888	40271	39507	38549	37385	37237	38014	39444	39547
32.5	37186	37347	37649	38103	36918	35459	33837	33250	34577	36664
35.0	32394	32451	32637	32940	33305	33425	31478	29686	29180	31213
37.5	28206	28177	28019	27697	27885	28136	28395	26941	25154	25383
40.0	24182	24344	24396	24151	23422	22753	23110	23454	22241	20501
42.5	19732	20099	20594	20973	20537	19577	18203	18666	19120	17782
45.0	15186	15545	16095	16761	17349	17253	16088	14585	15039	15492
47.5	13162	12923	12562	12489	13324	13993	14317	12980	11585	12396
50.0	11701	11598	11349	10975	10477	10505	11191	11569	10382	9763
52.5	10042	10054	10017	9905	9464	8918	8289	8983	9375	8440
55.0	8340	8358	8337	8278	8223	8047	7466	6871	7362	7621
57.5	6758	6834	6796	6601	6601	6651	6685	6219	5658	6169
60.0	5212	5429	5539	5448	5279	5174	5338	5465	5124	4584
62.5	4466	4532	4516	4369	4267	4233	4207	4286	4446	4093
65.0	3860	3883	3809	3649	3491	3414	3476	3431	3376	3561
67.5	3256	3281	3189	2986	2862	2843	2861	2870	2733	2634
70.0	2655	2710	2687	2556	2422	2348	2303	2302	2284	2147
72.5	2047	2104	2129	2088	2032	1973	1928	1816	1746	1767
75.0	1437	1484	1517	1519	1513	1528	1562	1531	1411	1277
77.5	743.7	797.0	853.9	908.4	972.2	1045	1094	1123	1130	1074
80.0	41.82	93.95	163.3	243.9	334.6	436.7	546.0	646.3	723.2	743.0
82.5	0	0	0	0	0	0	0	87.31	213.0	318.6
85.0	0	0	0	0	0	0	0	0	0	0
87.5	0	0	0	0	0	0	0	0	0	0
90.0	0	0	0	0	0	0	0	0	0	0
G/C	150.0	155.0	160.0	165.0	170.0	175.0	180.0	185.0	190.0	195.0
0.0	43995	43995	43995	43995	43995	43995	43995	43995	43995	43995
2.5	44412	44371	44325	44275	44221	44165	44107	44183	44258	44329
5.0	45109	45029	44932	44819	44693	44556	44411	44580	44742	44893
7.5	46144	46023	45875	45708	45517	45304	45069	45322	45554	45766
10.0	47280	47139	46960	46771	46567	46343	46092	46350	46583	46797
12.5	47711	47813	47740	47595	47449	47299	47129	47297	47446	47594
15.0	47947	48003	48054	47995	47954	47932	47904	47914	47919	47950
17.5	47945	47928	47869	47821	47943	48142	48379	48104	47869	47715
20.0	47688	47605	47333	47003	47230	47753	48362	47700	47127	46860
22.5	46651	47047	46471	45835	45807	46684	47714	46623	45683	45657
25.0	44845	45316	45305	44306	43634	44949	46496	44897	43527	44115
27.5	42246	42750	43784	42375	40843	42491	44712	42439	40734	42185
30.0	39148	39274	40489	40044	37812	39218	42268	39172	37714	39868
32.5	35921	34693	36105	37270	34255	35059	39096	34995	34139	37106
35.0	32743	30836	30721	33511	30200	30057	35106	30006	30074	33328
37.5	28017	27201	24714	27776	25938	24543	30190	24541	25836	27595
40.0	22119	23993	20472	21920	21865	19396	24818	19440	21835	21891
42.5	16632	19283	17509	16829	18249	15317	19909	15350	18314	16935
45.0	13919	14618	15191	13072	15350	12390	15952	12416	15441	13166
47.5	12286	11028	12872	11113	12512	10632	13145	10661	12573	11190
50.0	10676	9643	10079	9812	10227	9101	11021	9120	10278	9881
52.5	8439	8723	7851	8675	8247	7699	9230	7705	8271	8735
55.0	6615	7322	6483	7562	6558	6558	7500	6543	6519	7620
57.5	5975	5606	5848	5873	5295	5630	6167	5590	5194	5909
60.0	5146	4564	5128	4477	4634	4850	5101	4791	4557	4474
62.5	3822	4143	3869	3735	4080	4165	4185	4108	4018	3741
65.0	3175	3283	3057	3414	3494	3387	3389	3338	3443	3436
67.5	2848	2428	2809	2676	2535	2583	2745	2546	2498	2673
70.0	2068	2221	2047	1868	1817	1909	2223	1883	1799	1848
72.5	1672	1668	1631	1761	1706	1395	1766	1376	1693	1739
75.0	1335	1306	1348	1220	1232	1262	1378	1243	1207	1176
77.5	963.6	1017	972.5	1067	982.9	1002	1088	981.3	947.0	1014

H(β) Range:-90 - 90DEG  
H(β) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:27 July 2023

V(B) Range:-75 - 75DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.446  
Humidity:65.0%  
Test Distance:7.850m [K=1.0000]  
Remarks:



**Photometric Data Table [cd]**

80.0	761.6	708.6	718.5	628.0	589.6	584.6	815.3	564.3	548.8	561.9
82.5	395.2	452.4	476.0	422.6	400.2	321.9	544.6	319.3	362.6	360.5
85.0	0	101.0	156.7	216.2	162.9	53.08	267.8	56.96	136.3	166.8
87.5	0	0	0	0	24.06	24.89	66.51	19.19	14.00	0
90.0	0	0	0	0	0	0	10.21	0	0	0
G/C	200.0	205.0	210.0	215.0	220.0	225.0	230.0	235.0	240.0	245.0
0.0	43995	43995	43995	43995	43995	43995	43995	43995	43995	43995
2.5	44397	44461	44521	44574	44625	44671	44710	44744	44770	44790
5.0	45032	45157	45266	45358	45441	45510	45563	45605	45641	45661
7.5	45957	46133	46286	46413	46517	46513	46469	46430	46402	46384
10.0	47000	47197	47367	47298	47218	47137	47069	47019	46988	46978
12.5	47745	47840	47794	47732	47657	47576	47498	47477	47539	47615
15.0	48011	47995	47981	47952	47910	47890	47930	48024	48147	48281
17.5	47774	47867	47928	47926	47868	47913	48048	48266	48321	48014
20.0	47181	47466	47570	47358	47330	47472	47408	47087	46794	46510
22.5	46258	46811	46373	46167	46228	45969	45702	45450	45214	44834
25.0	45037	44998	44461	44267	44146	44012	43868	43291	42827	42595
27.5	43497	42426	41864	41803	41849	41735	40714	40167	39995	40198
30.0	40255	38976	38796	39112	38981	37547	36747	36809	37826	38634
32.5	35880	34459	35596	36251	34144	32803	33308	34798	36066	37064
35.0	30464	30546	32420	30869	28804	29263	30945	32725	32504	32084
37.5	24500	26939	27764	25110	24807	26522	27874	27591	27283	27019
40.0	20420	23769	21945	20288	21895	23063	22703	22329	22930	23537
42.5	17560	19179	16590	17610	18791	18333	17871	19202	20065	20398
45.0	15282	14655	13947	15389	14866	14355	15786	16894	16935	16291
47.5	12971	11079	12337	12382	11546	12775	14041	13702	13004	12129
50.0	10137	9671	10702	9748	10327	11363	10963	10282	10206	10617
52.5	7918	8734	8421	8396	9309	8856	8127	8705	9174	9521
55.0	6552	7342	6583	7538	7261	6777	7322	7844	7949	7921
57.5	5931	5657	5914	6051	5497	6134	6565	6510	6392	6291
60.0	5231	4618	5078	4459	4987	5391	5270	5102	5094	5114
62.5	3932	4174	3795	3975	4312	4187	4167	4173	4057	3997
65.0	3084	3320	3152	3452	3261	3332	3458	3372	3317	3364
67.5	2832	2445	2809	2562	2634	2792	2830	2810	2761	2774
70.0	2045	2222	2038	2078	2190	2207	2226	2298	2310	2341
72.5	1609	1639	1621	1687	1655	1713	1841	1897	1885	1882
75.0	1305	1254	1272	1195	1316	1425	1470	1434	1378	1349
77.5	904.3	949.5	895.9	984.7	1028	1014	983.9	932.5	859.3	795.4
80.0	645.4	635.0	681.6	648.1	618.6	559.9	477.7	387.7	296.1	213.7
82.5	404.0	379.9	321.0	262.1	180.2	75.53	0	0	0	0
85.0	105.4	76.49	0	0	0	0	0	0	0	0
87.5	0	0	0	0	0	0	0	0	0	0
90.0	0	0	0	0	0	0	0	0	0	0
G/C	250.0	255.0	260.0	265.0	270.0	275.0	280.0	285.0	290.0	295.0
0.0	43995	43995	43995	43995	43995	43995	43995	43995	43995	43995
2.5	44806	44816	44819	44816	44806	44796	44780	44758	44731	44699
5.0	45674	45675	45664	45618	45591	45552	45508	45455	45393	45393
7.5	46377	46371	46365	46352	46329	46304	46267	46217	46154	46074
10.0	46985	47003	47025	47040	47041	47026	46997	46951	46885	46799
12.5	47683	47740	47783	47805	47806	47788	47749	47690	47613	47521
15.0	48405	48491	48549	48573	48571	48549	48498	48420	48322	48204
17.5	47729	47483	47298	47179	47130	47147	47233	47387	47622	47950
20.0	46239	46006	45834	45732	45688	45692	45752	45863	46026	46274
22.5	44533	44348	44255	44221	44235	44278	44344	44416	44478	44517
25.0	42519	42542	42616	42691	42782	42870	42948	43010	43041	43019
27.5	40678	41016	41217	41320	41360	41337	41284	41243	41263	41402
30.0	39233	39645	39873	39964	39937	39777	39522	39207	38922	38731
32.5	36539	36144	35849	35691	35664	35724	35838	35946	35953	35759
35.0	31718	31454	31314	31289	31391	31594	31865	32127	32302	32237
37.5	27242	27300	27238	27162	27149	27255	27497	27886	28423	28935
40.0	23674	23536	23293	23060	22907	22892	23022	23329	23788	24342
42.5	19954	19404	18988	18734	18653	18715	18902	19166	19414	19625
45.0	15597	14996	14593	14394	14399	14558	14883	15307	15762	16077
47.5	12157	12456	12654	12759	12793	12786	12770	12749	12722	12851
50.0	10949	11162	11258	11255	11188	11119	11061	11020	10973	10911
52.5	9621	9655	9665	9641	9600	9565	9544	9505	9368	9153
55.0	7942	7996	8024	8021	8012	8021	8079	8143	8123	7957
57.5	6413	6526	6524	6456	6396	6407	6516	6669	6804	6866
60.0	5182	5189	5066	4898	4780	4791	4937	5121	5277	5349
62.5	4170	4295	4316	4272	4212	4183	4213	4232	4153	3882
65.0	3483	3621	3687	3682	3643	3615	3643	3689	3665	3466
67.5	2900	3049	3104	3087	3048	3028	3056	3100	3113	3027
70.0	2438	2527	2531	2491	2453	2440	2464	2488	2472	2398

H(β) Range:-90 - 90DEG  
H(β) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:27 July 2023

V(B) Range:-75 - 75DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.446  
Humidity:65.0%  
Test Distance:7.850m [K=1.0000]  
Remarks:

**Photometric Data Table [cd]**

72.5	1913	1941	1926	1895	1872	1867	1888	1913	1896	1826
75.0	1339	1334	1317	1298	1290	1295	1315	1353	1377	1370
77.5	745.9	710.4	678.7	654.2	645.0	652.8	679.4	727.8	784.0	843.2
80.0	142.6	83.70	38.15	9.614	0	9.593	38.20	85.82	149.9	226.6
82.5	0	0	0	0	0	0	0	0	0	0
85.0	0	0	0	0	0	0	0	0	0	0
87.5	0	0	0	0	0	0	0	0	0	0
90.0	0	0	0	0	0	0	0	0	0	0
G/C	300.0	305.0	310.0	315.0	320.0	325.0	330.0	335.0	340.0	345.0
0.0	43995	43995	43995	43995	43995	43995	43995	43995	43995	43995
2.5	44665	44626	44583	44536	44484	44431	44375	44317	44257	44194
5.0	45325	45248	45168	45082	44991	44897	44804	44706	44605	44499
7.5	45982	45875	45755	45622	45489	45380	45280	45185	45093	45006
10.0	46693	46570	46428	46266	46093	45907	45719	45663	45632	45600
12.5	47415	47297	47144	46947	46742	46543	46359	46188	46153	46195
15.0	48066	47900	47701	47474	47235	47020	46845	46697	46572	46715
17.5	48383	48408	48125	47822	47538	47302	47129	47026	47011	47136
20.0	46622	47108	47762	47974	47610	47302	47011	46929	47061	47367
22.5	44587	44952	45530	46367	47418	46994	46530	46052	46369	46922
25.0	42950	42851	42929	43692	44869	46483	45781	45002	44788	45657
27.5	41335	41111	40855	40558	41524	43205	44796	43634	42271	43378
30.0	38707	39027	38798	38288	37797	39136	41562	42035	40021	40022
32.5	35268	35151	35595	35837	35089	34287	36684	39994	37311	35427
35.0	31717	30741	30792	31634	32249	31120	30881	34257	34243	30196
37.5	28583	27601	26005	26115	27664	27988	26174	27766	30911	26062
40.0	24915	24933	23414	21390	21945	24103	22934	21182	24861	22169
42.5	20197	20741	21159	19257	17197	18701	20258	17398	18862	18830
45.0	16129	16238	16804	17205	15461	13914	16091	15236	14250	16139
47.5	13233	13201	12775	13471	13979	12354	12352	13584	11312	13273
50.0	10875	10950	10750	10246	10980	11205	9973	10821	10088	10509
52.5	9110	9100	9085	8795	8437	9256	8985	8259	8997	8210
55.0	7637	7365	7440	7544	7335	7137	7925	6753	7523	6446
57.5	6631	6292	5980	6155	6388	5985	5980	6109	5769	5756
60.0	5413	5442	5209	5022	5114	5304	4633	5126	4517	5171
62.5	3970	4178	4380	4387	4095	4133	4123	3762	4075	4197
65.0	3211	3058	3321	3582	3612	3204	3311	3115	3403	3062
67.5	2845	2700	2657	2604	2832	2850	2427	2698	2388	2543
70.0	2318	2291	2310	2222	2041	2172	2178	1938	2066	2269
72.5	1764	1787	1836	1869	1786	1592	1636	1648	1619	1472
75.0	1357	1360	1365	1359	1379	1395	1210	1256	1191	1292
77.5	910.4	975.0	1000	994.0	950.8	932.2	973.2	903.9	939.0	817.5
80.0	313.4	408.5	513.0	614.9	675.1	635.4	581.1	636.5	619.6	678.0
82.5	0	0	0	83.07	201.7	301.2	366.7	339.2	330.8	346.9
85.0	0	0	0	0	0	0	0	87.32	134.4	100.7
87.5	0	0	0	0	0	0	0	0	0	0
90.0	0	0	0	0	0	0	0	0	0	0
G/C	350.0	355.0								
0.0	43995	43995								
2.5	44130	44064								
5.0	44390	44278								
7.5	44915	44816								
10.0	45562	45512								
12.5	46244	46286								
15.0	46934	47155								
17.5	47455	47745								
20.0	47648	47882								
22.5	47367	47418								
25.0	46594	46302								
27.5	45094	44544								
30.0	42332	42112								
32.5	38518	38858								
35.0	33484	34754								
37.5	27579	29895								
40.0	21651	24807								
42.5	16732	20164								
45.0	13110	16483								
47.5	11284	13291								
50.0	9868	10907								
52.5	8616	8902								
55.0	7542	7150								
57.5	6564	5749								
60.0	5151	4565								
62.5	3876	3541								

H(β) Range:-90 - 90DEG  
H(β) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:27 July 2023

V(B) Range:-75 - 75DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.446  
Humidity:65.0%  
Test Distance:7.850m [K=1.0000]  
Remarks:

**Photometric Data Table [cd]**

65.0	2916	2873
67.5	2612	2478
70.0	2276	2153
72.5	1499	1792
75.0	1251	1184
77.5	874.7	833.4
80.0	709.2	692.1
82.5	333.0	386.3
85.0	128.0	186.1
87.5	15.75	20.25
90.0	0	0

H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:27 July 2023

V(B) Range:-75 - 75DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.446  
Humidity:65.0%  
Test Distance:7.850m [K=1.0000]  
Remarks:

50% Beam Angle : 81°-H X 81°-V

one-half-peak spread: U:26.1,D:25.6 , L:23.0,R:19.9

TOTAL FLUX : 81913 lm

LOR : 100.0%

AVAILABILITY FLUX : 77126 lm

AVAILABILITY : 94.2%

