

Floodlight Summary:

Report based on lamp delivering 1000 lumens.

Maximum Intensity		374.9 cd per klm.
(Luminaire orientation as tested.)		0.0 degrees vertical
		-1.0 degrees horizontal

Beam Spread	At 10% of I <sub>max</sub>	148.7V x 152.5H
	At 50% of I <sub>max</sub>	107.5V x 113.9H
	At 90% of I <sub>max</sub>	49.6V x 56.4H

Beam Flux	Total	1000.0 lumens per klm.
	To 10% of I <sub>max</sub>	983.2 lumens per klm.
	To 50% of I <sub>max</sub>	764.8 lumens per klm.
	To 90% of I <sub>max</sub>	226.2 lumens per klm.

Upward LOR	0.0 %
Downward LOR	100.0 %

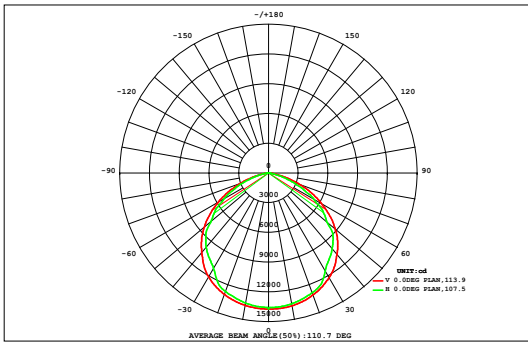
Luminaire Efficiency(Light Output Ratio)	100.0 %
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C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:S  
 Test Date:2020-3-25

γ Range: 0 - 90DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.404.7  
 Humidity:65.0%  
 Test Distance:7.890m [K=1.0000]  
 Remarks:

**LUMINAIRE PHOTOMETRIC TEST REPORT**

Test:U:277.00V I:1.1659A P:250W PF:0.9888 Freq:49.99Hz Lamp Flux:33167x1 lm		
NAME: ASD-LMAL-HV-250D50-MRN	TYPE:	
MFR.: ASD LIGHTING CORP		



DATA OF LAMP		Eff:143.50lm/W	
MOA&D-LMAL-HV-250D50-MRN		Imax (cd)	13725
NOMINAL POWER (W)	250	AVAILABILITY (%)	98.4
RATED VOLTAGE (V)	277	Avai. FLUX (lm)	33167
NOMINAL FLUX (lm)	33167	LOR (%)	100.0
LAMPS INSIDE	1	TOTAL FLUX (lm)	36614
TEST VOLTAGE (V)	277	θ @50% (H,V)	114,108DEG

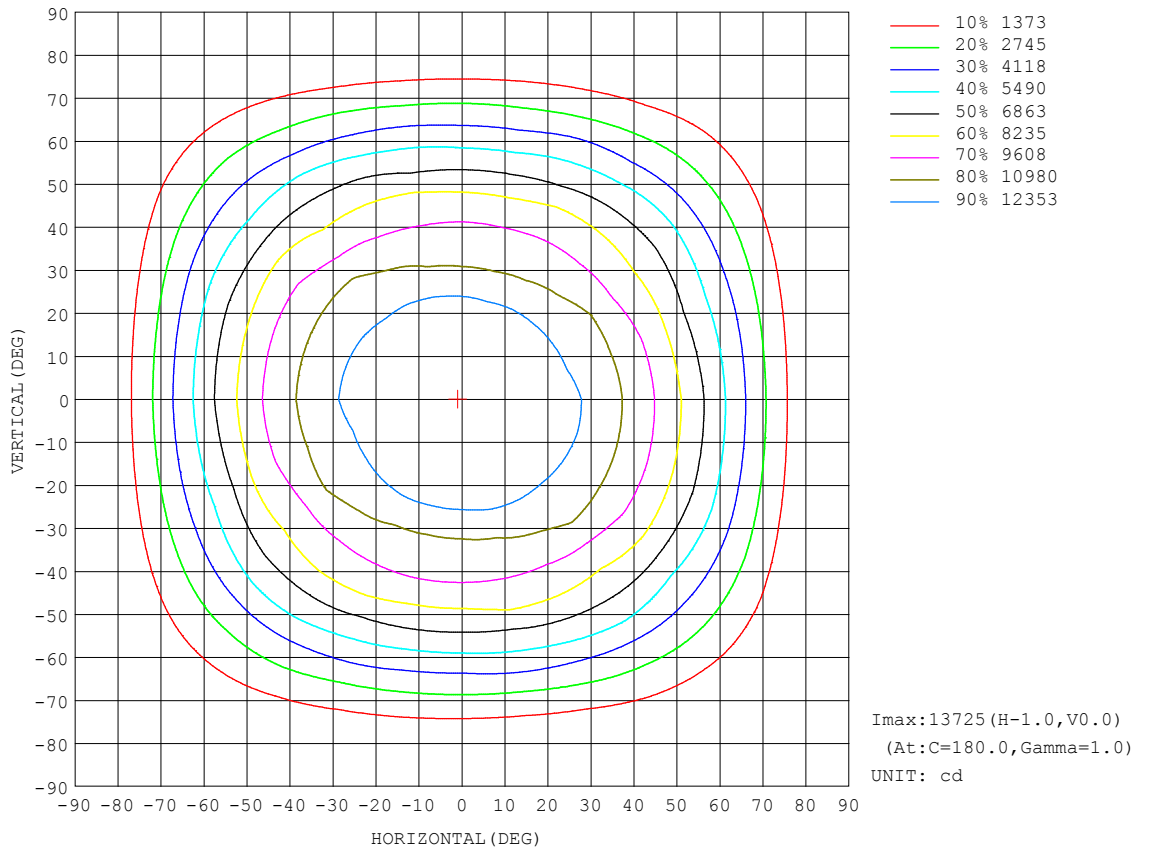
VERTICAL (DEG)	AREA FLUX DIAGRAM															UNIT:lm		Φ t	Φ a		
	0.05	0.20	0.52	1.03	1.58	2.22	2.81	3.23	3.43	3.30	2.86	2.26	1.57	0.96	0.53	0.25	0.10			0.03	26.9
80	0.08	0.76	3.30	8.18	14.7	22.5	30.0	35.6	39.0	38.6	34.1	27.4	19.2	11.5	5.72	2.10	0.44	0.04	293	122	
70	0.15	2.21	10.1	25.2	45.9	69.4	90.8	106	114	113	102	84.5	62.3	39.5	20.4	7.52	1.51	0.08	895	845	
60	0.26	4.52	20.5	49.3	85.7	125	160	183	195	193	178	153	117	77.7	42.6	16.3	3.34	0.14	1604	1582	
50	0.40	7.47	32.2	73.5	124	176	221	253	269	266	247	214	167	116	65.7	26.8	5.70	0.24	2264	2251	
40	0.56	10.5	43.2	94.9	158	217	267	300	316	314	295	259	208	148	86.1	37.1	8.23	0.35	2763	2754	
30	0.71	13.1	52.2	113	185	253	311	349	366	361	336	294	236	170	101	45.9	10.6	0.46	3199	3192	
	0.83	15.0	58.5	125	202	274	334	375	394	393	370	327	264	190	114	52.6	12.4	0.55	3502	3495	
	0.90	16.1	61.8	131	210	285	347	390	410	407	385	342	279	203	123	56.7	13.6	0.60	3661	3655	
	0.89	15.9	61.1	130	209	284	344	387	408	410	389	346	282	205	126	57.4	13.7	0.59	3670	3665	
	0.82	14.6	56.6	121	199	271	332	374	397	398	377	335	272	198	121	54.4	12.8	0.54	3534	3527	
	0.70	12.4	49.5	107	178	245	304	347	371	374	354	313	251	182	109	48.6	11.0	0.45	3258	3251	
-30	0.54	9.70	40.3	90.7	154	215	266	302	322	323	305	270	216	154	90.8	39.9	8.63	0.34	2808	2798	
-40	0.38	6.79	29.3	69.3	122	175	221	255	274	275	258	223	175	120	69.0	29.2	5.89	0.22	2309	2296	
-50	0.24	4.09	18.2	45.4	82.3	123	158	184	198	199	187	160	123	82.1	45.2	17.6	3.28	0.13	1630	1609	
-60	0.14	1.95	8.62	22.4	42.7	65.9	87.8	105	115	115	106	88.6	66.5	42.9	21.9	7.88	1.36	0.07	899	850	
-70	0.07	0.64	2.50	6.33	12.3	19.7	27.3	33.9	37.0	36.8	33.3	27.1	19.6	12.2	6.07	2.06	0.37	0.04	277	118	
-80	0.04	0.16	0.34	0.62	1.01	1.46	1.91	2.32	2.45	2.38	2.12	1.71	1.30	0.88	0.53	0.25	0.11	0.04	19.6	0.00	
-90	0.04	0.16	0.34	0.62	1.01	1.46	1.91	2.32	2.45	2.38	2.12	1.71	1.30	0.88	0.53	0.25	0.11	0.04	19.6	0.00	
	-90	-80	-70	-60	-50	-40	-30	-20	HORIZONTAL (DEG)	20	30	40	50	60	70	80	90				
Φ t	7.77	136	549	1213	2028	2825	3507	3986	4229	4222	3962	3466	2761	1953	1149	502	113	4.91	36614	---	
Φ a	0.00	88.2	512	1177	1993	2789	3472	3952	4193	4186	3928	3431	2727	1918	1113	465	64.5	0.00	---	36010	

one-half-peak spread: U:54.5,D:53.7 , L:56.8,R:57.6 NEMA Beam Type: Type 7

C Range: 0 - 360DEG	γ Range: 0 - 90DEG
C Interval: 15.0DEG	γ Interval: 1.0DEG
Test Speed: HIGH	Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.404.7
Temperature:25.3DEG	Humidity:65.0%
Operators:S	Test Distance:7.890m [K=1.0000]
Test Date:2020-3-25	Remarks:

**ISOCANDELA DIAGRAM**

Test:U:277.00V I:1.1659A P:250W PF:0.9888 Freq:49.99Hz Lamp Flux:33167x1 lm		
NAME: ASD-LMAL-HV-250D50-MRN	TYPE:	
MFR.: ASD LIGHTING CORP		

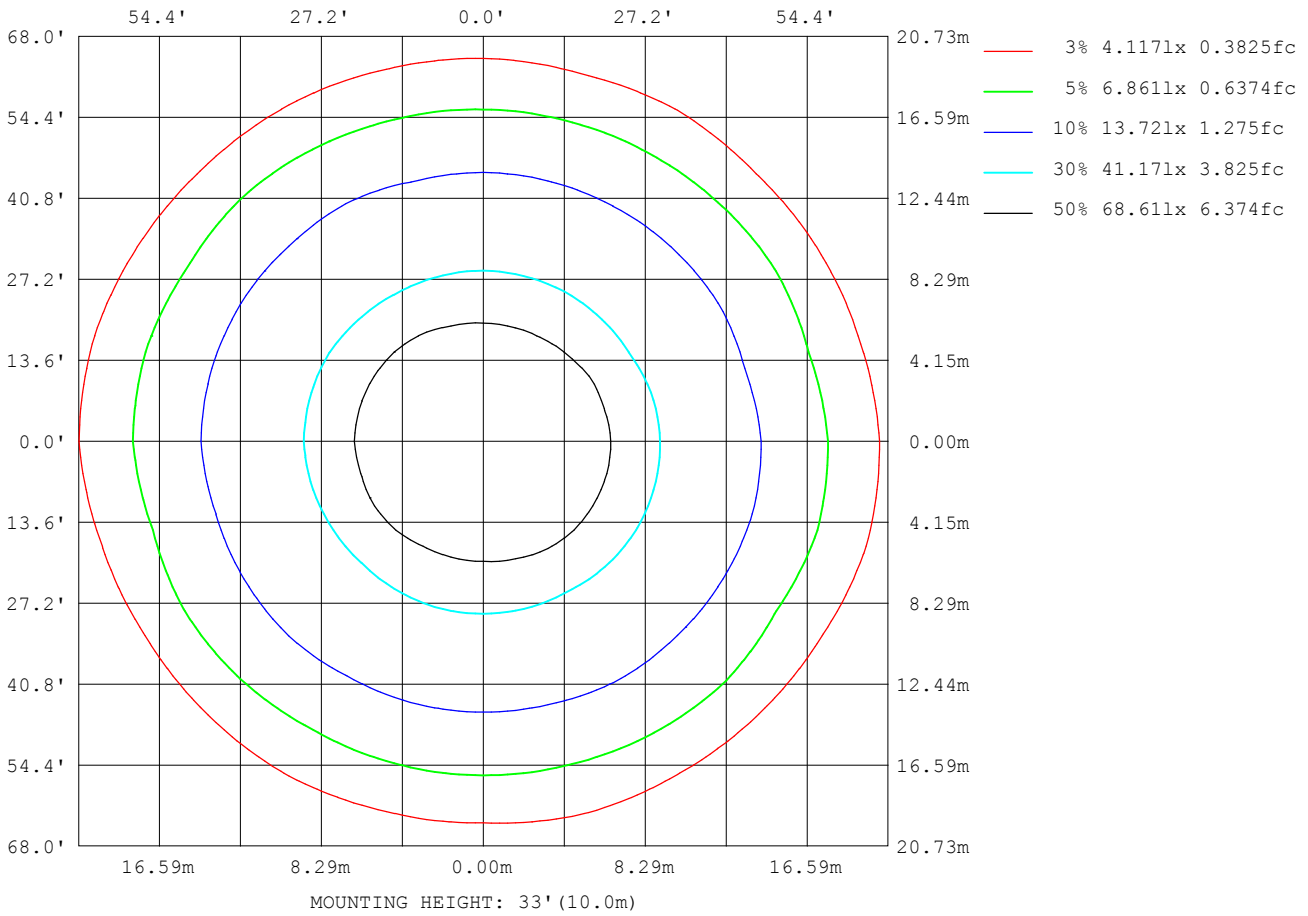


C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:S  
 Test Date:2020-3-25

γ Range: 0 - 90DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.404.7  
 Humidity:65.0%  
 Test Distance:7.890m [K=1.0000]  
 Remarks:

**ISOLUX DIAGRAM**

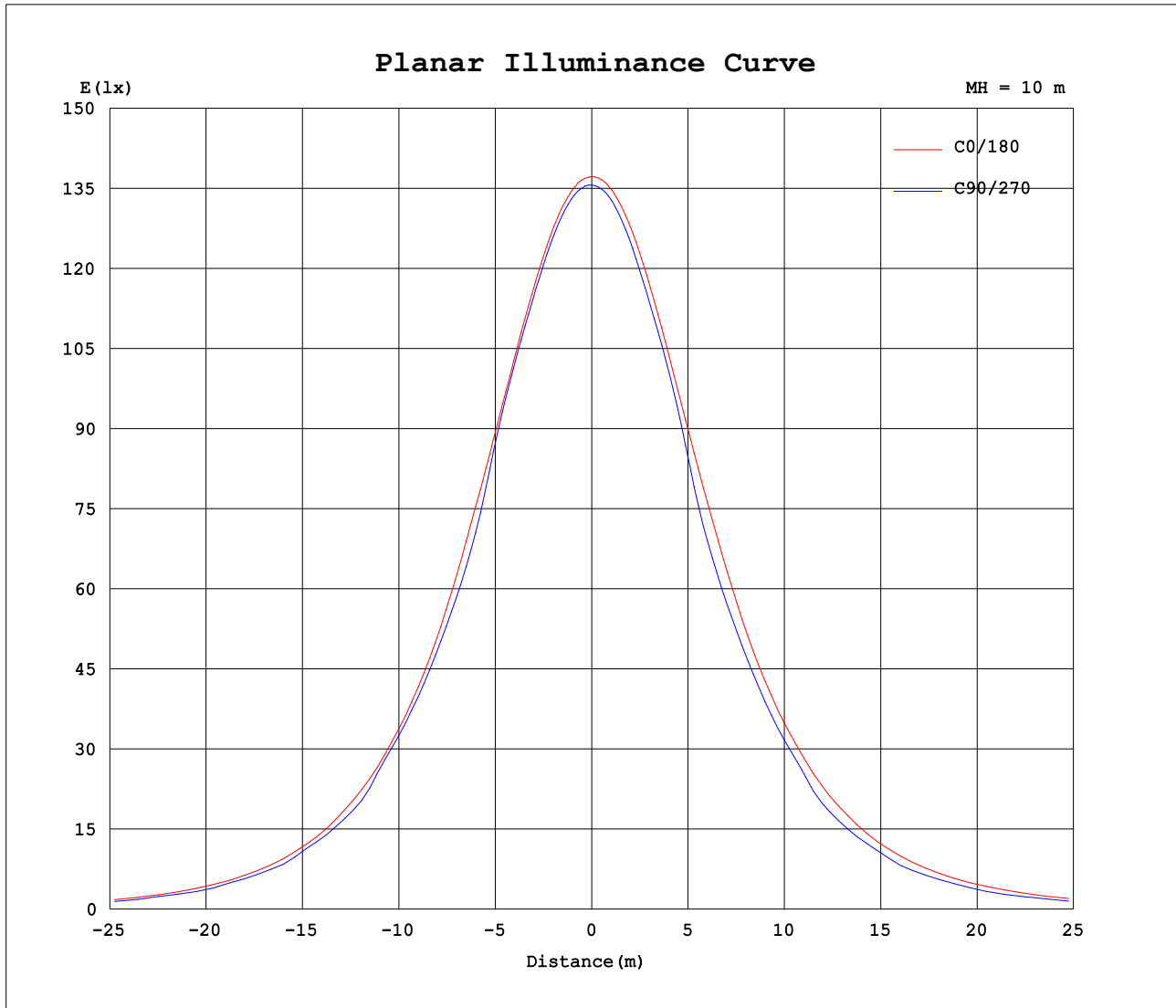
Test:U:277.00V I:1.1659A P:250W PF:0.9888 Freq:49.99Hz Lamp Flux:33167x1 lm		
NAME: ASD-LMAL-HV-250D50-MRN	TYPE:	
MFR.: ASD LIGHTING CORP		



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:S  
 Test Date:2020-3-25

γ Range: 0 - 90DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.404.7  
 Humidity:65.0%  
 Test Distance:7.890m [K=1.0000]  
 Remarks:

**Planar Illuminance Curve**

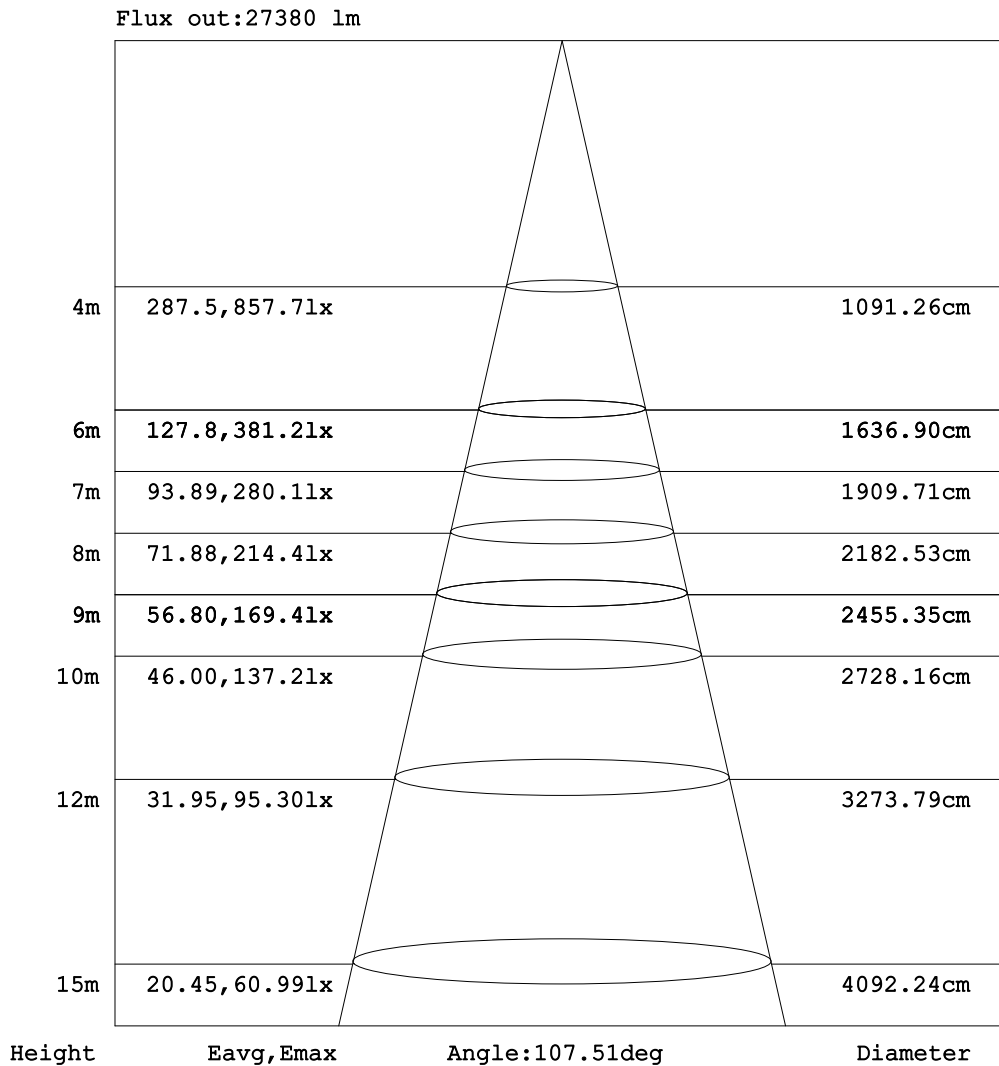


C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: S  
 Test Date: 2020-3-25

γ Range: 0 - 90DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.404.7  
 Humidity: 65.0%  
 Test Distance: 7.890m [K=1.0000]  
 Remarks:

**AAI Figure**

Test:U:277.00V I:1.1659A P:250W PF:0.9888 Freq:49.99Hz Lamp Flux:33167x1 lm		
NAME: ASD-LMAL-HV-250D50-MRN	TYPE:	
MFR.: ASD LIGHTING CORP		



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

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:S  
 Test Date:2020-3-25

γ Range: 0 - 90DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.404.7  
 Humidity:65.0%  
 Test Distance:7.890m [K=1.0000]  
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:277.00V I:1.1659A P:250W PF:0.9888 Freq:49.99Hz Lamp Flux:33167x1 lm		
NAME: ASD-LMAL-HV-250D50-MRN	TYPE:	
MFR.: ASD LIGHTING CORP		

Table--1

UNIT: ×10cd

H (DEG) V (DEG)	-90	-85	-80	-75	-70	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0
-90	1.46	1.41	1.37	1.33	1.37	1.42	1.47	1.44	1.42	1.40	1.36	1.33	1.29	1.25	1.21	1.17	1.13	1.08	1.04
-85	1.46	1.53	1.51	1.67	1.88	1.94	2.05	2.18	2.36	2.57	2.74	2.85	3.03	3.32	3.53	3.65	3.67	3.60	3.44
-80	1.46	1.66	2.32	3.56	4.99	6.46	7.82	11.0	13.4	15.4	18.7	21.1	22.8	25.5	28.0	29.2	29.9	30.2	29.9
-75	1.46	2.03	3.82	7.11	11.3	17.6	24.4	33.2	42.5	52.0	62.8	73.1	80.8	93.0	101	108	114	117	118
-70	1.46	2.51	6.08	12.7	23.6	36.6	52.8	71.5	93.8	116	138	158	177	194	212	222	231	235	234
-65	1.46	3.09	9.13	21.7	39.9	63.5	90.9	124	160	194	234	262	291	321	341	364	375	380	381
-60	1.46	3.93	13.0	33.0	60.4	96.8	141	186	239	287	336	376	415	453	482	502	516	524	527
-55	1.46	4.73	18.2	46.1	86.4	137	192	256	322	384	432	500	533	576	610	637	657	667	670
-50	1.46	5.79	24.3	60.7	113	178	252	331	401	468	549	598	647	690	717	742	758	768	770
-45	1.46	6.95	30.8	76.7	145	219	310	396	470	573	630	710	758	811	853	886	907	918	922
-40	1.46	8.03	37.4	93.6	172	265	366	455	564	645	730	800	858	901	938	966	987	997	1000
-35	1.46	9.17	44.0	110	201	309	412	515	623	716	796	865	923	967	1003	1031	1050	1062	1066
-30	1.46	10.5	51.0	125	228	348	456	568	677	777	846	917	983	1022	1066	1090	1117	1134	1142
-25	1.46	11.6	57.1	142	255	380	496	606	730	834	901	984	1056	1104	1155	1191	1220	1238	1245
-20	1.46	12.6	62.7	157	279	409	532	644	778	887	960	1051	1127	1174	1218	1247	1270	1282	1287
-15	1.46	13.3	67.3	169	299	434	562	685	820	930	1008	1093	1159	1208	1246	1275	1298	1311	1316
-10	1.46	13.9	70.9	178	314	454	587	717	850	957	1039	1118	1180	1230	1269	1299	1320	1334	1341
-5	1.46	14.3	73.3	185	325	469	605	740	868	976	1061	1142	1203	1250	1286	1315	1336	1347	1354
0	1.46	14.5	74.5	189	330	479	617	754	877	987	1074	1159	1221	1271	1311	1341	1361	1370	1372
5	1.46	14.4	73.8	187	327	475	613	747	870	981	1067	1149	1212	1261	1300	1329	1348	1355	1351
10	1.46	14.0	71.8	182	319	464	602	733	855	966	1051	1129	1194	1243	1281	1309	1325	1335	1333
15	1.46	13.5	68.6	174	307	448	585	712	833	940	1026	1101	1166	1215	1251	1277	1296	1303	1304
20	1.46	12.8	64.2	163	290	427	560	685	801	904	993	1064	1130	1178	1212	1241	1259	1268	1272
25	1.46	11.8	58.7	150	269	400	526	645	756	863	950	1016	1081	1135	1166	1199	1212	1220	1217
30	1.46	10.7	52.8	135	247	366	488	596	700	810	897	948	1006	1067	1087	1110	1117	1117	1111
35	1.46	9.38	46.1	118	221	330	441	542	635	738	823	874	910	970	1000	1018	1032	1041	1045
40	1.46	8.23	39.3	101	191	288	390	484	567	652	739	795	840	888	925	948	964	975	980
45	1.46	7.16	32.2	82.8	161	245	334	421	496	577	647	710	762	806	844	870	885	894	897
50	1.46	6.01	25.7	66.0	129	199	276	351	422	488	561	614	656	709	733	745	763	768	754
55	1.46	4.95	19.6	50.5	97.1	155	215	282	342	397	446	510	551	577	606	629	642	651	654
60	1.46	4.15	14.3	36.4	68.9	112	158	207	258	306	350	387	421	461	482	493	504	512	514
65	1.46	3.31	9.89	24.2	46.4	74.5	107	142	174	213	242	276	309	333	346	353	366	374	375
70	1.46	2.71	6.63	14.9	28.1	45.0	65.4	85.4	106	130	149	171	189	207	219	226	234	242	247
75	1.46	2.20	4.32	8.02	14.7	23.5	34.3	43.8	54.3	63.6	75.0	86.3	93.6	104	111	116	121	124	124
80	1.46	1.78	2.74	4.32	6.57	9.72	13.5	17.0	20.4	23.0	27.0	30.5	33.0	35.2	37.4	38.5	39.7	40.2	39.9
85	1.46	1.62	1.77	2.19	2.61	3.14	3.96	4.32	4.69	4.94	5.31	5.65	6.01	6.31	6.48	6.51	6.59	6.56	6.40
90	1.46	1.45	1.43	1.42	1.33	1.25	1.16	1.21	1.26	1.30	1.28	1.26	1.24	1.22	1.19	1.17	1.12	1.07	1.02

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
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 Temperature:25.3DEG  
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γ Range: 0 - 90DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.404.7  
 Humidity:65.0%  
 Test Distance:7.890m [K=1.0000]  
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:277.00V I:1.1659A P:250W PF:0.9888 Freq:49.99Hz Lamp Flux:33167x1 lm		
NAME: ASD-LMAL-HV-250D50-MRN	TYPE:	
MFR.: ASD LIGHTING CORP		

Table--2

UNIT: ×10cd

H (DEG) V (DEG)	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	
-90	1.07	1.11	1.14	1.16	1.17	1.19	1.21	1.23	1.25	1.22	1.19	1.15	1.22	1.28	1.34	1.35	1.36	1.37	
-85	3.44	3.36	3.21	3.07	2.85	2.56	2.40	2.30	2.16	1.95	1.73	1.56	1.30	1.27	1.30	1.29	1.33	1.37	
-80	30.3	30.0	28.8	27.1	24.0	21.4	19.8	17.6	14.1	12.2	10.0	6.97	4.56	2.88	1.90	1.37	1.29	1.37	
-75	118	115	109	101	92.7	84.9	73.8	62.1	51.8	42.0	31.4	22.3	14.0	7.29	3.61	1.94	1.32	1.37	
-70	235	233	227	214	192	178	158	140	113	91.5	69.5	49.9	31.3	16.7	7.26	3.02	1.38	1.37	
-65	378	369	356	346	322	292	265	234	196	158	123	88.4	57.5	32.1	13.6	4.67	1.53	1.37	
-60	523	514	501	485	449	414	380	338	289	239	182	138	91.4	51.8	23.2	7.09	1.91	1.37	
-55	668	659	640	612	580	547	500	432	381	322	259	190	133	76.4	35.0	10.9	2.28	1.37	
-50	787	784	760	744	711	651	610	550	468	398	327	252	176	106	48.4	15.0	2.79	1.37	
-45	918	907	886	855	812	763	704	638	556	473	393	309	220	137	63.4	19.4	3.36	1.37	
-40	996	985	965	937	894	841	789	727	636	543	459	362	265	166	79.1	25.4	3.89	1.37	
-35	1062	1053	1035	1011	982	916	868	809	720	614	519	414	305	194	94.8	31.0	4.51	1.37	
-30	1152	1146	1135	1103	1077	1014	945	884	791	682	574	462	339	220	110	36.4	5.28	1.37	
-25	1244	1232	1212	1179	1142	1083	1011	937	845	738	624	502	369	243	123	41.3	5.95	1.37	
-20	1283	1272	1252	1222	1183	1129	1056	979	888	782	663	533	395	261	133	46.1	6.51	1.37	
-15	1314	1305	1285	1257	1218	1166	1093	1013	921	813	690	558	416	276	143	49.9	6.96	1.37	
-10	1340	1331	1312	1283	1244	1193	1120	1035	944	832	707	574	429	287	150	52.6	7.29	1.37	
-5	1356	1348	1328	1299	1259	1207	1135	1046	954	842	717	583	437	294	154	54.2	7.50	1.37	
0	1369	1357	1335	1304	1263	1210	1140	1049	957	845	719	585	440	296	154	54.8	7.58	1.37	
5	1345	1333	1309	1280	1241	1191	1123	1036	945	830	703	573	432	291	152	54.3	7.55	1.37	
10	1327	1313	1291	1259	1217	1164	1096	1014	923	805	680	556	420	282	147	52.7	7.40	1.37	
15	1297	1284	1260	1231	1190	1137	1062	981	889	769	649	532	403	267	140	50.1	7.12	1.37	
20	1265	1251	1224	1188	1140	1091	1007	930	844	726	612	501	379	248	129	46.5	6.71	1.37	
25	1200	1177	1145	1108	1063	1018	944	876	794	688	578	469	352	228	118	41.8	6.18	1.37	
30	1102	1087	1065	1037	997	954	892	821	744	644	539	430	321	204	106	37.0	5.52	1.37	
35	1039	1025	1007	980	942	898	836	768	689	598	486	389	283	179	92.8	31.5	4.75	1.37	
40	972	957	938	910	876	827	770	694	620	532	433	342	239	154	78.0	26.2	4.11	1.37	
45	891	876	855	826	780	731	664	604	544	450	377	289	200	124	63.2	20.8	3.54	1.37	
50	748	734	718	695	665	621	570	521	443	383	310	233	162	99.9	49.5	16.6	2.91	1.37	
55	649	637	615	589	556	513	471	409	365	301	243	177	120	74.2	36.3	12.4	2.34	1.37	
60	510	500	486	465	438	399	359	315	269	224	172	127	86.1	52.3	25.2	8.23	1.93	1.37	
65	371	362	349	330	306	275	249	217	181	146	111	81.4	55.4	33.1	16.3	5.48	1.50	1.37	
70	242	231	216	205	187	170	148	127	104	85.6	63.7	47.0	31.5	18.6	9.20	3.41	1.32	1.37	
75	123	120	114	105	94.3	83.7	72.8	60.4	48.5	39.2	30.2	21.7	14.3	8.68	4.60	2.00	1.26	1.37	
80	39.3	37.9	35.7	33.3	30.4	27.1	22.7	18.8	15.3	12.6	9.58	6.90	4.95	3.26	1.98	1.25	1.22	1.37	
85	6.12	5.73	5.23	4.82	4.31	3.71	3.12	2.65	2.24	1.89	1.61	1.50	1.26	1.16	1.09	1.13	1.25	1.37	
90	1.02	1.02	1.02	1.03	1.05	1.07	1.10	1.12	1.14	1.17	1.19	1.21	1.18	1.15	1.11	1.20	1.28	1.37	

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:S  
 Test Date:2020-3-25

γ Range: 0 - 90DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.404.7  
 Humidity:65.0%  
 Test Distance:7.890m [K=1.0000]  
 Remarks: