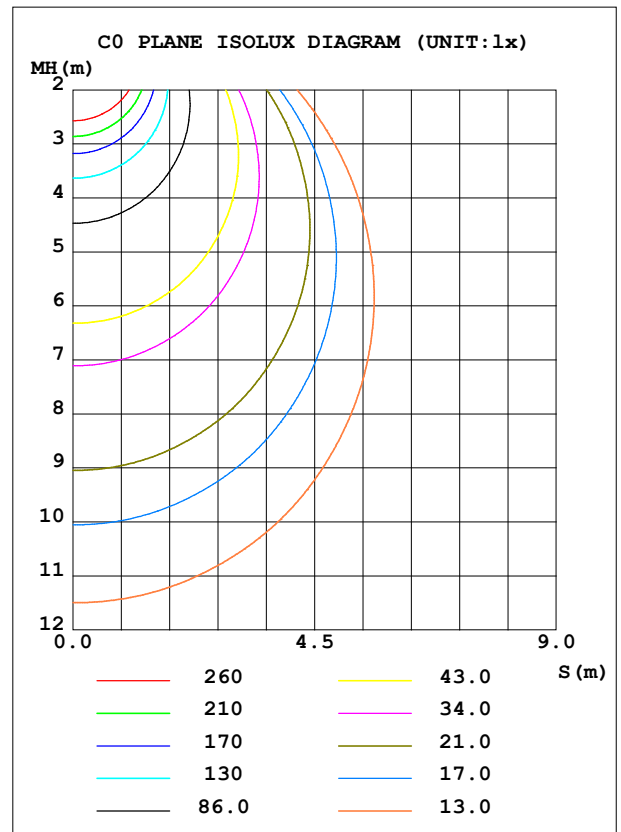
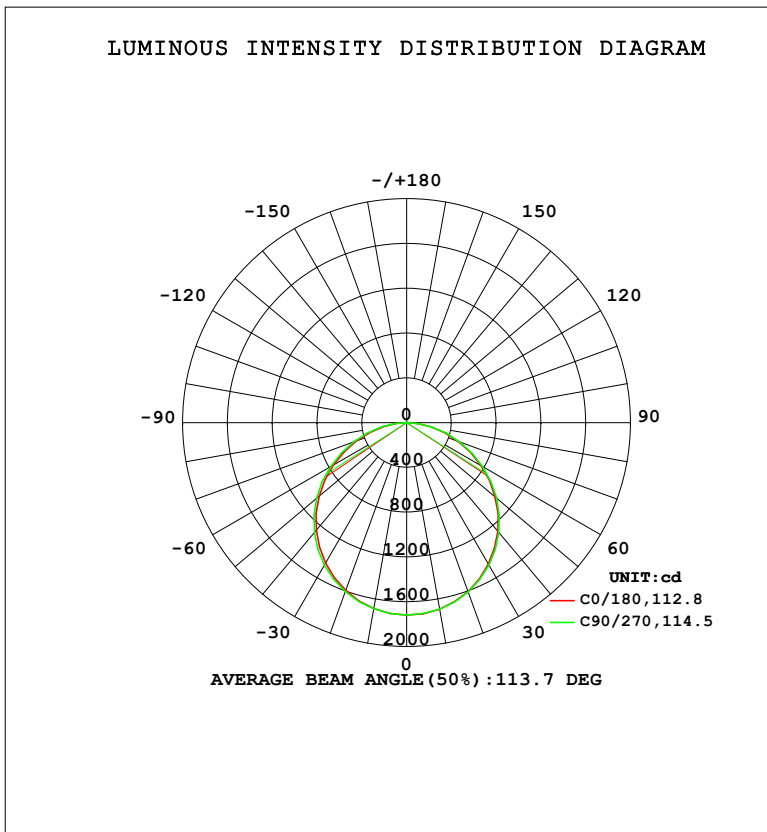


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:276.85V I:0.1410A P:38.468W PF:0.9855 Freq:60.01Hz		
Lamp Flux:5025x1 lm		
NAME: ASD-BLP-24A40		
MFR.: ASD Lighting Corp		

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL	ASD-BLP-24A40	Imax (cd)	1719	S/MH (C0/180)	1.25
NOMINAL POWER (W)	40	LOR (%)	100.0	S/MH (C90/270)	1.27
RATED VOLTAGE (V)	277	TOTAL FLUX (lm)	5025.0	η UP, DN (C0-180)	0.0, 50.1
NOMINAL FLUX (lm)	5025	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 49.8
LAMPS INSIDE	1	η up (%)	0.1	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)	277	η down (%)	99.9	CIBSE SHR MAX	1.35



C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature: 25.3°C
 Operators: DAMIN
 Test Date: 2023-12-21

γ Range: 0 - 180DEG
 γ Interval: 5.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.464
 Humidity: 65.0%
 Test Distance: 26.000m [K=1.2780]
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

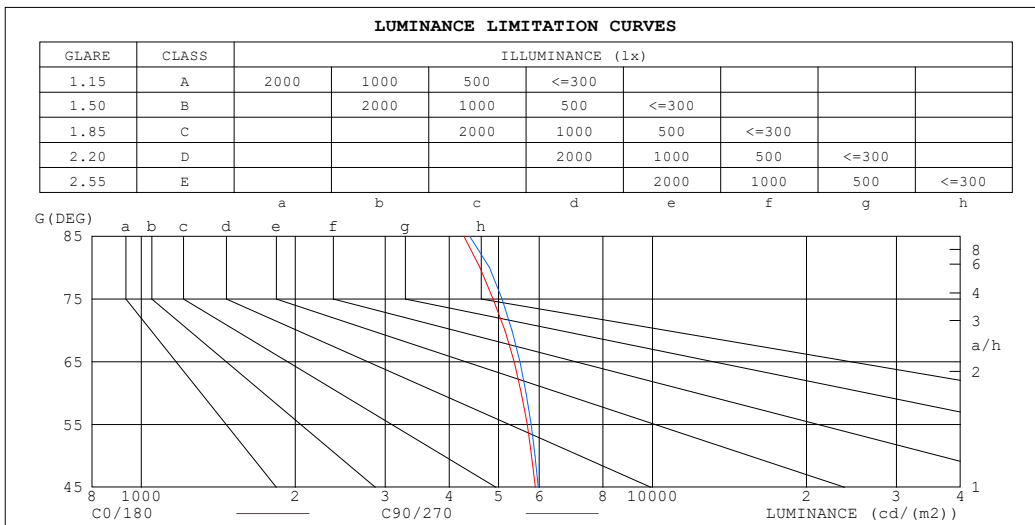
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	1692	1693	1692	1688	1686	1685	1688	1691	0- 10	162.7	162.7	3.24,3.24
20	1606	1612	1609	1601	1595	1599	1604	1604	10- 20	466.8	629.5	12.5,12.5
30	1459	1470	1471	1456	1449	1458	1470	1463	20- 30	709.5	1339	26.6,26.6
40	1268	1279	1281	1265	1257	1269	1282	1271	30- 40	858.6	2198	43.7,43.7
50	1032	1047	1049	1030	1021	1037	1050	1036	40- 50	894.1	3092	61.5,61.5
60	767.1	779.8	783.7	765.0	754.1	772.0	782.9	773.1	50- 60	811.7	3903	77.7,77.7
70	487.2	498.6	502.9	485.6	475.2	490.6	499.9	493.4	60- 70	626.2	4530	90.1,90.1
80	221.1	229.1	230.7	218.1	207.1	219.4	227.3	225.0	70- 80	375.0	4905	97.6,97.6
90	11.25	8.573	4.514	5.971	6.979	5.795	3.426	8.209	80- 90	117.5	5022	99.9,99.9
100	0.3162	0.3936	0.5511	0.4700	0	0	0	0	90-100	2.151	5024	100,100
110	0.1568	0.2363	0.4701	0.2341	0	0	0.0790	0	100-110	0.1689	5024	100,100
120	0.1568	0.2363	0.3924	0.2341	0	0	0.1567	0	110-120	0.1508	5025	100,100
130	0.1568	0.2363	0.2351	0.1561	0	0	0.1567	0	120-130	0.1124	5025	100,100
140	0.1568	0.1575	0.2351	0.0783	0	0	0.1567	0.0787	130-140	0.0893	5025	100,100
150	0.1568	0.1575	0.2351	0.0780	0	0	0.1567	0.2341	140-150	0.0767	5025	100,100
160	0.1568	0.1575	0.2351	0.0780	0	0	0.1567	0.2341	150-160	0.0589	5025	100,100
170	0.1568	0.1575	0.2351	0.0780	0	0.1575	0.1567	0.2341	160-170	0.0400	5025	100,100
180	0.1568	0.1575	0.2351	0.0780	0	0.1575	0.1567	0.2341	170-180	0.0140	5025	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:DAMIN
 Test Date:2023-12-21

γ Range: 0 - 180DEG
 γ Interval: 5.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.464
 Humidity:65.0%
 Test Distance:26.000m [K=1.2780]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:276.85V I:0.1410A P:38.468W PF:0.9855 Freq:60.01Hz Lamp Flux:5025x1 lm		



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	4273	4387
80	4594	4799
75	4879	5080
70	5140	5311
65	5366	5504
60	5536	5661
55	5688	5792
50	5794	5893
45	5901	5972

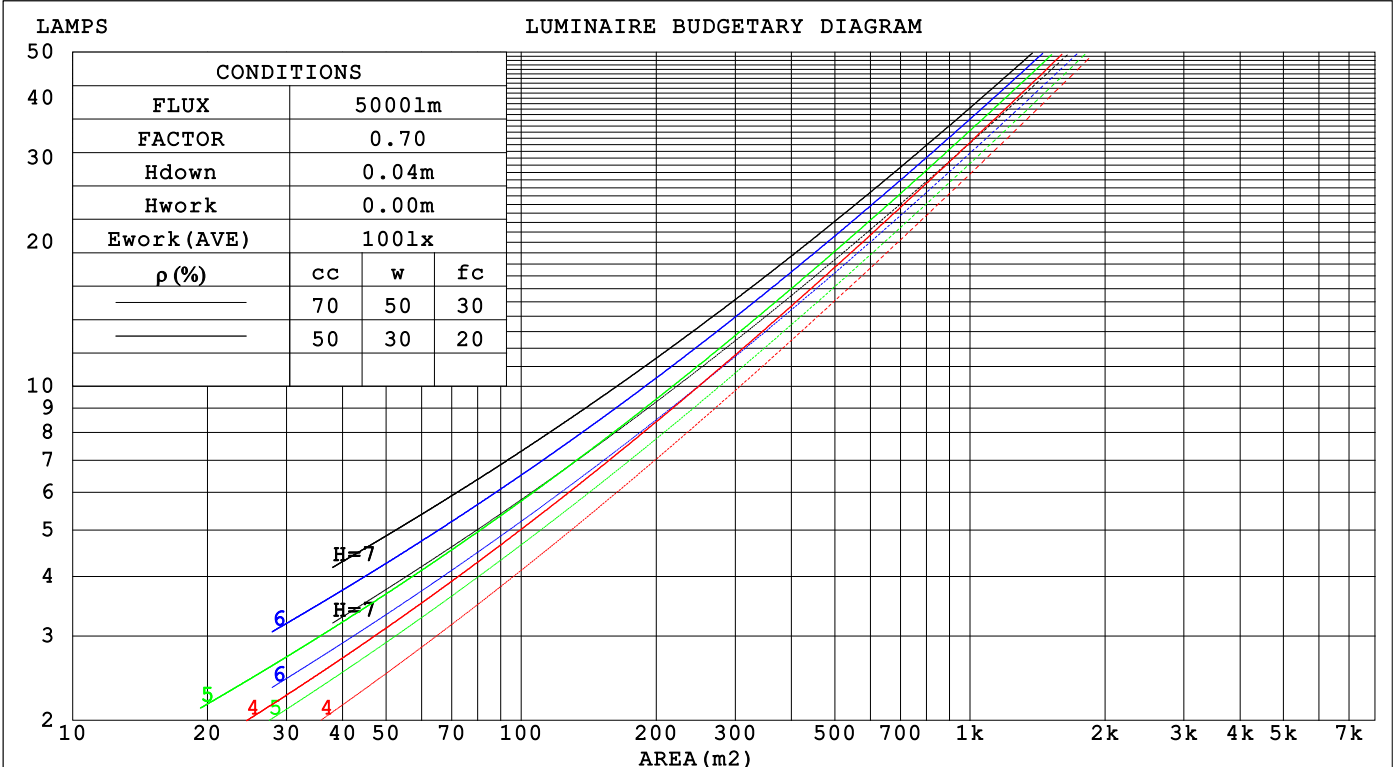
C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:DAMIN
 Test Date:2023-12-21

γ Range: 0 - 180DEG
 γ Interval: 5.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.464
 Humidity:65.0%
 Test Distance:26.000m [K=1.2780]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:276.85V I:0.1410A P:38.468W PF:0.9855 Freq:60.01Hz															
Lamp Flux:5025x1 lm															

ρcc	80%			70%			50%			30%			10%			0
	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρw																
ρfc																
RCR	RCR:Room Cavity Ratio															
	Coefficients of Utilization(CU)															
0.0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	.00
1.0	1.03	.99	.95	1.01	.97	.94	.97	.94	.91	.93	.90	.88	.89	.87	.85	.83
2.0	.90	.83	.77	.88	.82	.76	.84	.79	.74	.81	.77	.73	.78	.74	.71	.69
3.0	.79	.70	.64	.77	.69	.63	.74	.68	.62	.71	.66	.61	.69	.64	.60	.58
4.0	.70	.61	.54	.68	.60	.54	.66	.59	.53	.63	.57	.52	.61	.56	.51	.49
5.0	.62	.53	.46	.61	.52	.46	.59	.51	.46	.57	.50	.45	.55	.49	.45	.42
6.0	.56	.47	.40	.55	.46	.40	.53	.46	.40	.51	.45	.39	.50	.44	.39	.37
7.0	.51	.42	.36	.50	.41	.35	.48	.41	.35	.47	.40	.35	.45	.39	.35	.33
8.0	.46	.38	.32	.46	.37	.32	.44	.37	.31	.43	.36	.31	.42	.36	.31	.29
9.0	.42	.34	.29	.42	.34	.28	.41	.33	.28	.40	.33	.28	.39	.32	.28	.26
10.0	.39	.31	.26	.39	.31	.26	.38	.31	.26	.37	.30	.26	.36	.30	.25	.24



C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:DAMIN
 Test Date:2023-12-21

γ Range: 0 - 180DEG
 γ Interval: 5.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.464
 Humidity:65.0%
 Test Distance:26.000m [K=1.2780]
 Remarks:

WEC AND CCEC

Test:U:276.85V I:0.1410A P:38.468W PF:0.9855 Freq:60.01Hz															
Lamp Flux:5025x1 lm															

ρ_{cc}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients (WEC)									
0.0																
1.0	.317	.181	.057	.310	.177	.056	.297	.170	.054	.285	.164	.053	.273	.158	.051	
2.0	.297	.163	.050	.290	.160	.049	.279	.155	.048	.268	.150	.047	.258	.146	.046	
3.0	.274	.146	.044	.268	.144	.043	.258	.140	.042	.248	.136	.042	.239	.132	.041	
4.0	.252	.131	.038	.247	.129	.038	.238	.126	.038	.229	.123	.037	.221	.120	.037	
5.0	.232	.118	.034	.228	.117	.034	.220	.114	.034	.212	.112	.033	.205	.110	.033	
6.0	.215	.108	.031	.211	.107	.031	.204	.105	.030	.197	.103	.030	.191	.100	.030	
7.0	.200	.099	.028	.197	.098	.028	.190	.096	.028	.184	.094	.027	.178	.093	.027	
8.0	.187	.091	.026	.184	.090	.026	.178	.089	.025	.172	.087	.025	.167	.086	.025	
9.0	.175	.085	.024	.172	.084	.024	.167	.083	.023	.162	.081	.023	.157	.080	.023	
10.0	.164	.079	.022	.162	.078	.022	.157	.077	.022	.153	.076	.022	.149	.075	.021	

ρ_{cc}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients (CCEC)									
0.0																
1.0	.191	.191	.191	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
2.0	.181	.157	.134	.155	.134	.115	.106	.092	.080	.061	.053	.046	.020	.017	.015	
3.0	.173	.132	.098	.148	.114	.085	.102	.079	.059	.059	.046	.035	.019	.015	.011	
4.0	.166	.115	.074	.142	.099	.064	.097	.069	.045	.056	.040	.027	.018	.013	.009	
5.0	.158	.101	.058	.136	.088	.051	.093	.061	.036	.054	.036	.021	.017	.012	.007	
6.0	.150	.091	.047	.129	.079	.041	.089	.055	.029	.052	.032	.017	.017	.011	.006	
7.0	.143	.083	.039	.123	.072	.034	.085	.050	.024	.049	.030	.014	.016	.010	.005	
8.0	.136	.076	.033	.117	.066	.029	.081	.046	.021	.047	.027	.012	.015	.009	.004	
9.0	.130	.070	.029	.112	.061	.025	.077	.043	.018	.045	.025	.011	.015	.008	.004	
10.0	.124	.065	.026	.107	.057	.022	.074	.040	.016	.043	.023	.009	.014	.008	.003	
10.0	.118	.061	.023	.102	.053	.020	.071	.037	.014	.041	.022	.008	.013	.007	.003	

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:DAMIN
 Test Date:2023-12-21

γ Range: 0 - 180DEG
 γ Interval: 5.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.464
 Humidity:65.0%
 Test Distance:26.000m [K=1.2780]
 Remarks:

UTILIZATION FACTORS TABLE

Test:U:276.85V I:0.1410A P:38.468W PF:0.9855 Freq:60.01Hz Lamp Flux:5025x1 lm										

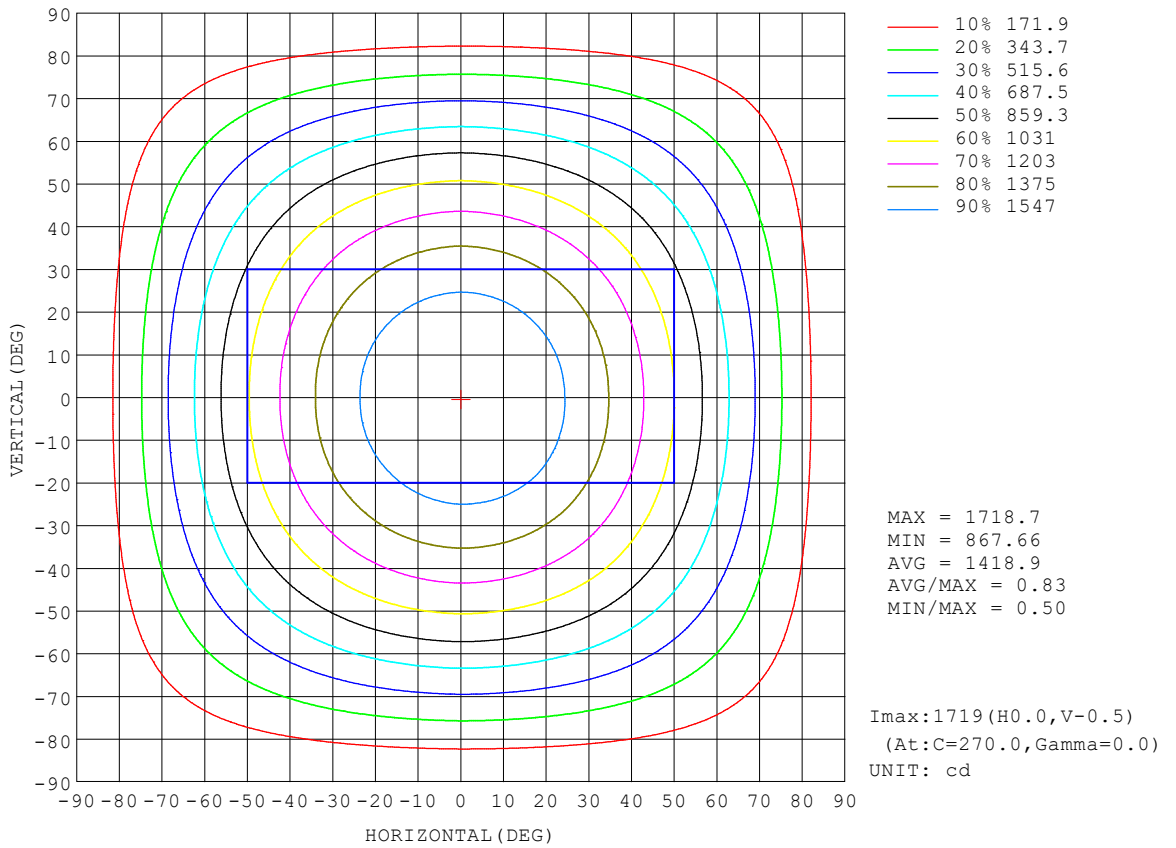
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	57	45	38	56	45	38	55	45	38	32
0.80	67	55	48	66	55	48	64	54	47	40
1.00	75	64	57	74	64	57	72	65	56	49
1.25	83	72	65	81	71	64	78	70	63	56
1.50	88	77	70	86	77	70	83	75	69	61
2.00	94	86	79	93	85	78	89	82	77	69
2.50	98	90	84	96	89	83	92	86	82	73
3.00	102	95	89	100	93	88	96	90	86	77
4.00	106	100	95	103	98	94	99	95	91	82
5.00	108	103	99	106	101	98	101	98	95	85
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:DAMIN
 Test Date:2023-12-21

γ Range: 0 - 180DEG
 γ Interval: 5.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.464
 Humidity:65.0%
 Test Distance:26.000m [K=1.2780]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:276.85V I:0.1410A P:38.468W PF:0.9855 Freq:60.01Hz Lamp Flux:5025x1 lm		

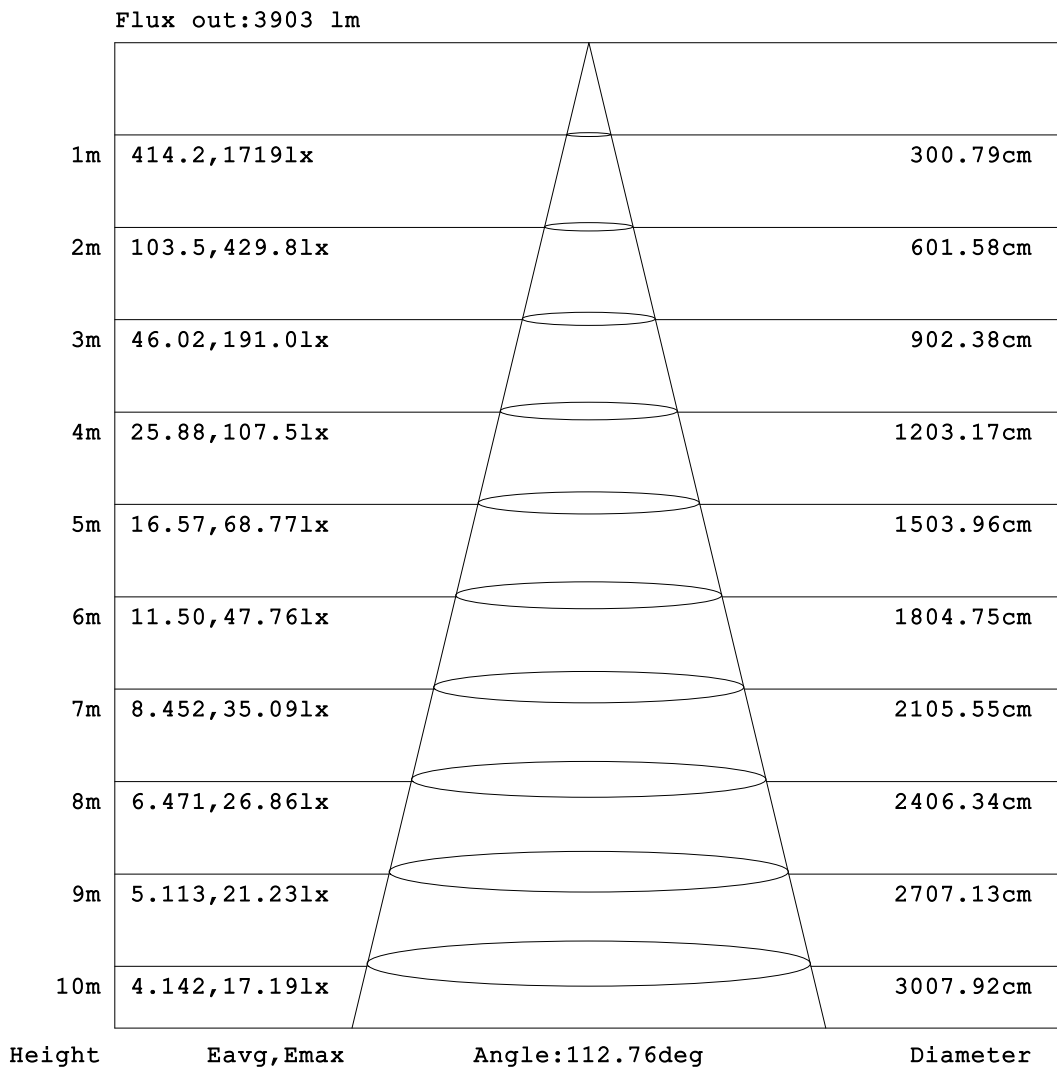


C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:DAMIN
 Test Date:2023-12-21

γ Range: 0 - 180DEG
 γ Interval: 5.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.464
 Humidity:65.0%
 Test Distance:26.000m [K=1.2780]
 Remarks:

AAI Figure

Test:U:276.85V I:0.1410A P:38.468W PF:0.9855 Freq:60.01Hz Lamp Flux:5025x1 lm		



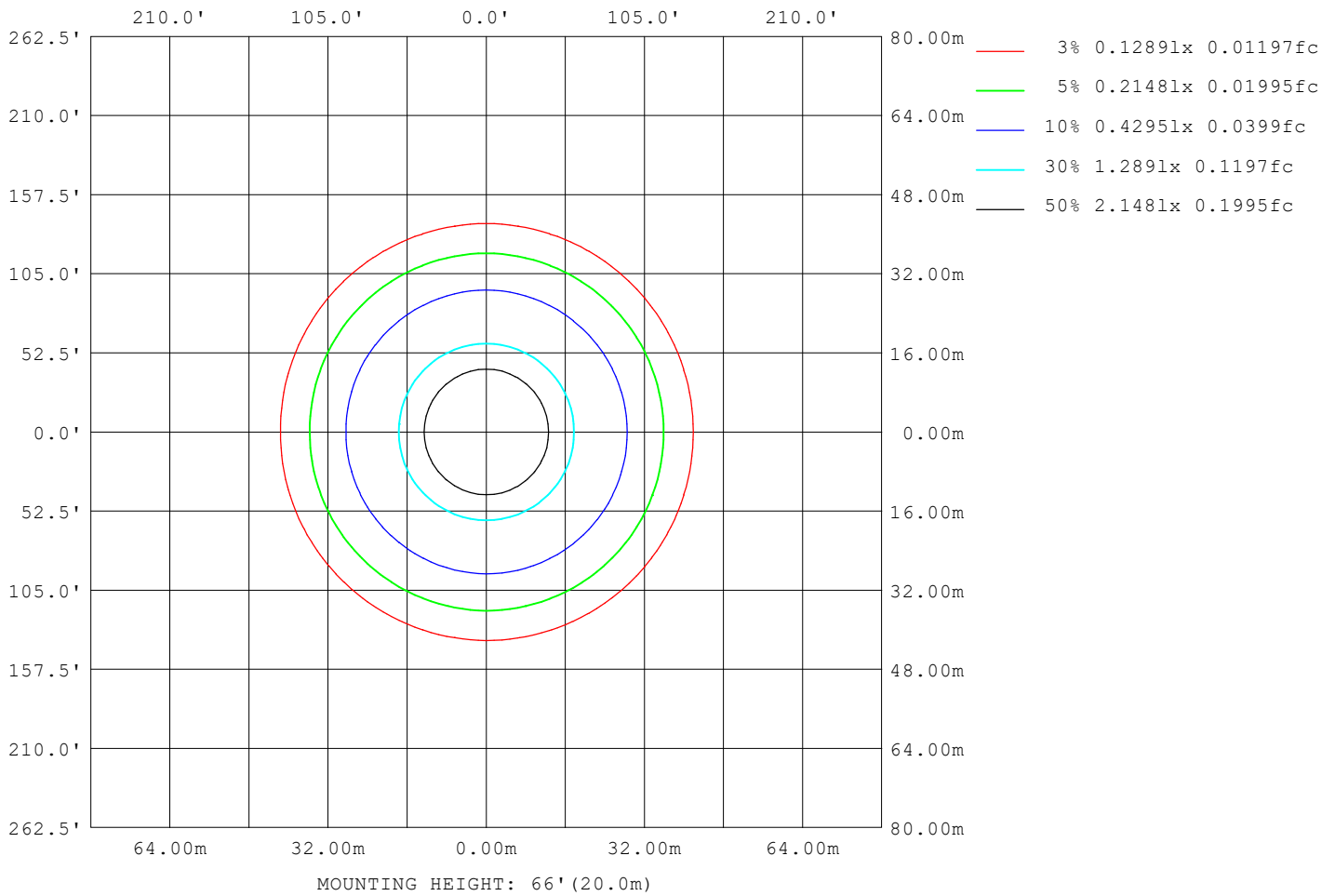
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:DAMIN
 Test Date:2023-12-21

γ Range: 0 - 180DEG
 γ Interval: 5.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.464
 Humidity:65.0%
 Test Distance:26.000m [K=1.2780]
 Remarks:

ISOLUX DIAGRAM

Test:U:276.85V I:0.1410A P:38.468W PF:0.9855 Freq:60.01Hz Lamp Flux:5025x1 lm		



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:DAMIN
Test Date:2023-12-21

γ Range: 0 - 180DEG
γ Interval: 5.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.464
Humidity:65.0%
Test Distance:26.000m [K=1.2780]
Remarks:

LED Avg.L Report

Test:U:276.85V I:0.1410A P:38.468W PF:0.9855 Freq:60.01Hz Lamp Flux:5025x1 lm		

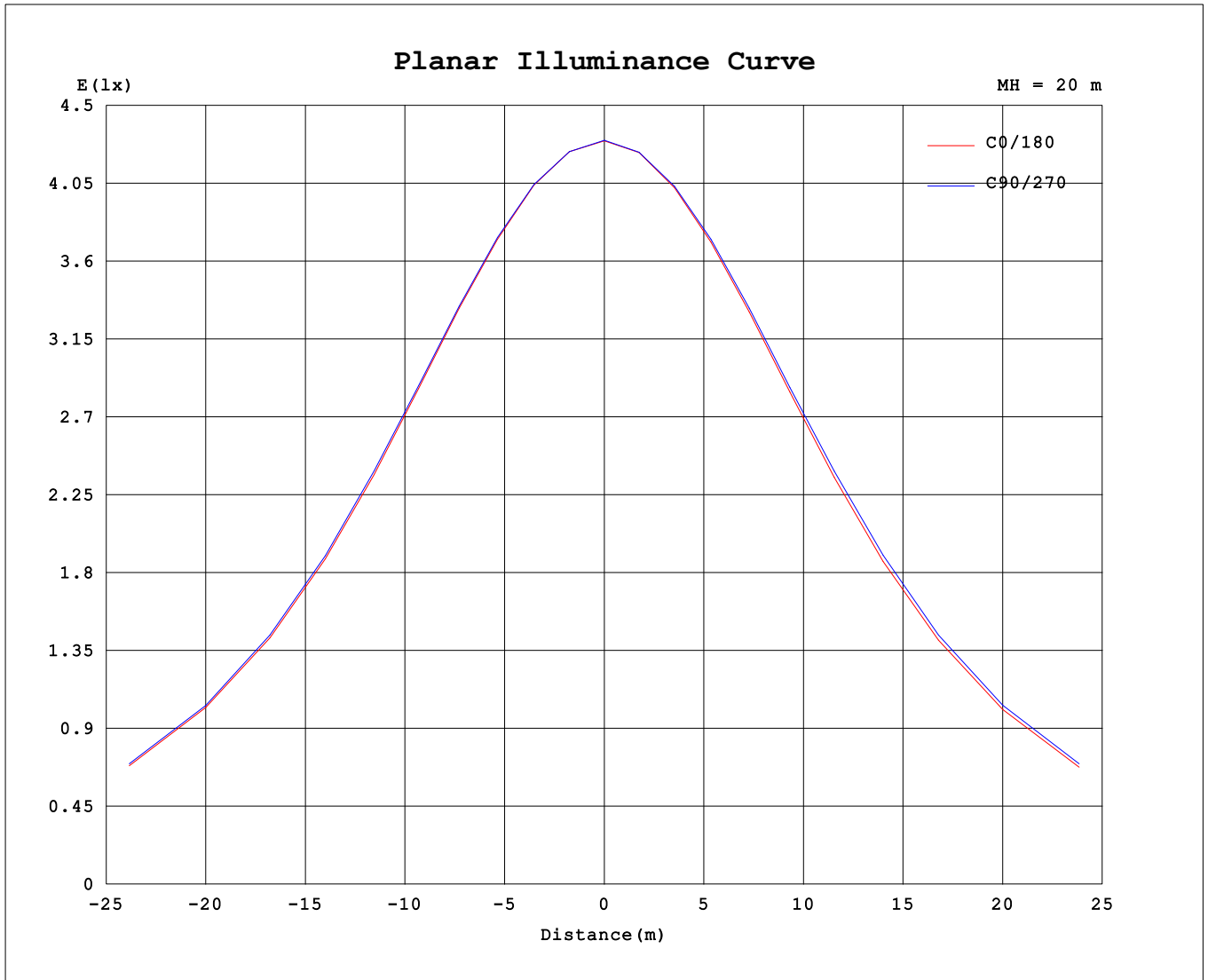
AvgL	cd/m2
L_0~180 (65) av	5309
L_0~180 (75) av	4790
L_0~180 (85) av	4022
L_90~270 (65) av	5492
L_90~270 (75) av	5058
L_90~270 (85) av	4342
L_45 (65) av	5409
L_45 (75) av	4939
L_45 (85) av	4214

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:DAMIN
 Test Date:2023-12-21

γ Range: 0 - 180DEG
 γ Interval: 5.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.464
 Humidity:65.0%
 Test Distance:26.000m [K=1.2780]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature: 25.3°C
 Operators: DAMIN
 Test Date: 2023-12-21

γ Range: 0 - 180DEG
 γ Interval: 5.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.464
 Humidity: 65.0%
 Test Distance: 26.000m [K=1.2780]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:276.85V I:0.1410A P:38.468W PF:0.9855 Freq:60.01Hz		
Lamp Flux:5025x1 lm		

Table--1

UNIT: cd

C (DEG) \ γ (DEG)	0	45	90	135	180	225	270	315											
0	1719	1719	1719	1719	1719	1719	1719	1719											
5	1713	1714	1712	1710	1711	1709	1710	1712											
10	1692	1693	1692	1688	1686	1685	1688	1691											
15	1655	1660	1658	1653	1648	1649	1654	1655											
20	1606	1612	1609	1601	1595	1599	1604	1604											
25	1539	1550	1547	1535	1528	1534	1542	1540											
30	1459	1470	1471	1456	1449	1458	1470	1463											
35	1370	1382	1381	1367	1358	1368	1383	1373											
40	1268	1279	1281	1265	1257	1269	1282	1271											
45	1156	1167	1169	1152	1144	1157	1171	1159											
50	1032	1047	1049	1030	1021	1037	1050	1036											
55	904	917	920	900	891	908	922	908											
60	767	780	784	765	754	772	783	773											
65	628	640	644	626	615	632	642	634											
70	487	499	503	486	475	491	500	493											
75	350	360	364	349	337	352	361	356											
80	221	229	231	218	207	219	227	225											
85	103	106	106	96.8	91.0	98.1	104	106											
90	11.3	8.57	4.51	5.97	6.98	5.80	3.43	8.21											
95	0.71	0.79	0.94	0.78	0.00	0.00	0.00	0.00											
100	0.32	0.39	0.55	0.47	0.00	0.00	0.00	0.00											
105	0.16	0.24	0.47	0.23	0.00	0.00	0.00	0.00											
110	0.16	0.24	0.47	0.23	0.00	0.00	0.08	0.00											
115	0.16	0.24	0.47	0.23	0.00	0.00	0.16	0.00											
120	0.16	0.24	0.39	0.23	0.00	0.00	0.16	0.00											
125	0.16	0.24	0.24	0.16	0.00	0.00	0.16	0.00											
130	0.16	0.24	0.24	0.16	0.00	0.00	0.16	0.00											
135	0.16	0.24	0.24	0.16	0.00	0.00	0.16	0.00											
140	0.16	0.16	0.24	0.08	0.00	0.00	0.16	0.08											
145	0.16	0.16	0.24	0.08	0.00	0.00	0.16	0.23											
150	0.16	0.16	0.24	0.08	0.00	0.00	0.16	0.23											
155	0.16	0.16	0.24	0.08	0.00	0.00	0.16	0.23											
160	0.16	0.16	0.24	0.08	0.00	0.00	0.16	0.23											
165	0.16	0.16	0.24	0.08	0.00	0.16	0.16	0.23											
170	0.16	0.16	0.24	0.08	0.00	0.16	0.16	0.23											
175	0.16	0.16	0.24	0.08	0.00	0.16	0.16	0.23											
180	0.16	0.16	0.24	0.08	0.00	0.16	0.16	0.23											

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:DAMIN
 Test Date:2023-12-21

γ Range: 0 - 180DEG
 γ Interval: 5.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.464
 Humidity:65.0%
 Test Distance:26.000m [K=1.2780]
 Remarks: