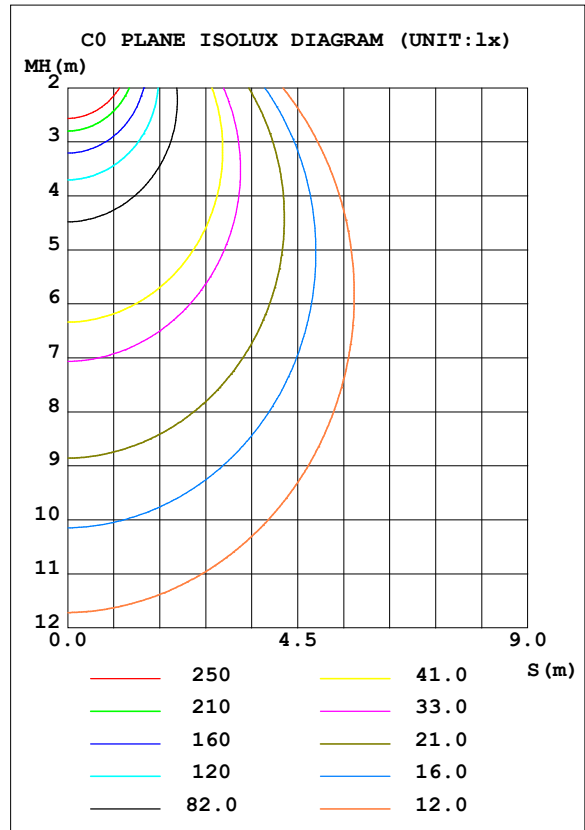
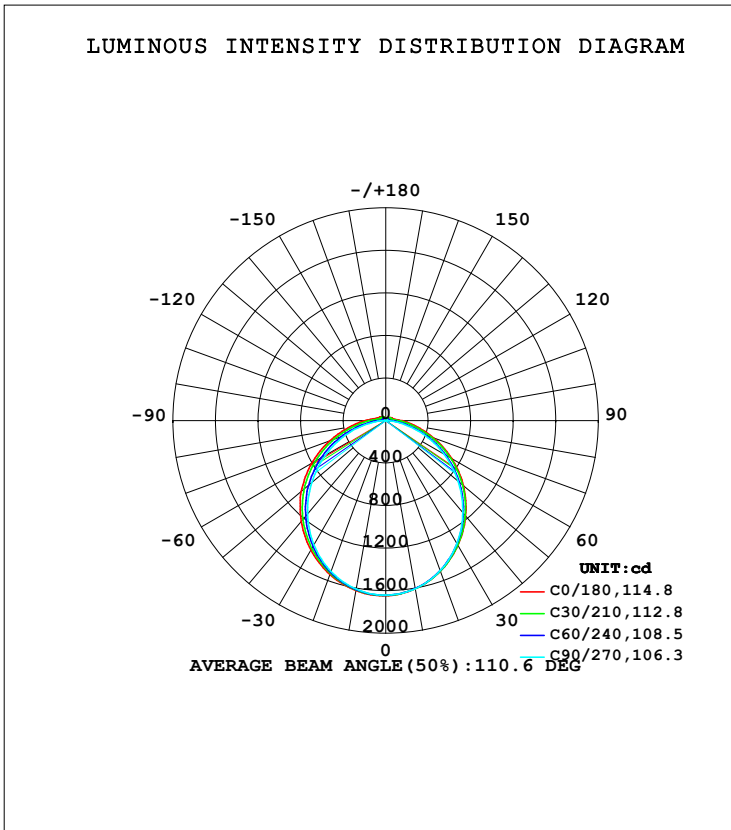


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.40V I:0.1950A P:34.900W PF:0.9810 Freq:50.00Hz		
Lamp Flux:4960.4x1 lm		
Name: NS55-35W	Type: LED	
MFR.: Lumega		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 142.13 lm/W			
MODEL		I _{max} (cd)	1648	S/MH (C0/180)	1.27
NOMINAL POWER (W)	35	LOR (%)	100.0	S/MH (C90/270)	1.23
RATED VOLTAGE (V)	220	TOTAL FLUX (lm)	4960.4	η UP, DN (C0-180)	2.3, 46.6
NOMINAL FLUX (lm)	4960.4	CIE CLASS	DIRECT	η UP, DN (C180-360)	2.7, 48.4
LAMPS INSIDE	1	η up (%)	5.0	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)	220	η down (%)	95.0	CIBSE SHR MAX	1.35



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: DAMIN
 Test Date: 2024-03-10

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.443
 Humidity: 65.0%
 Test Distance: 8.000m [K=0.7063]
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

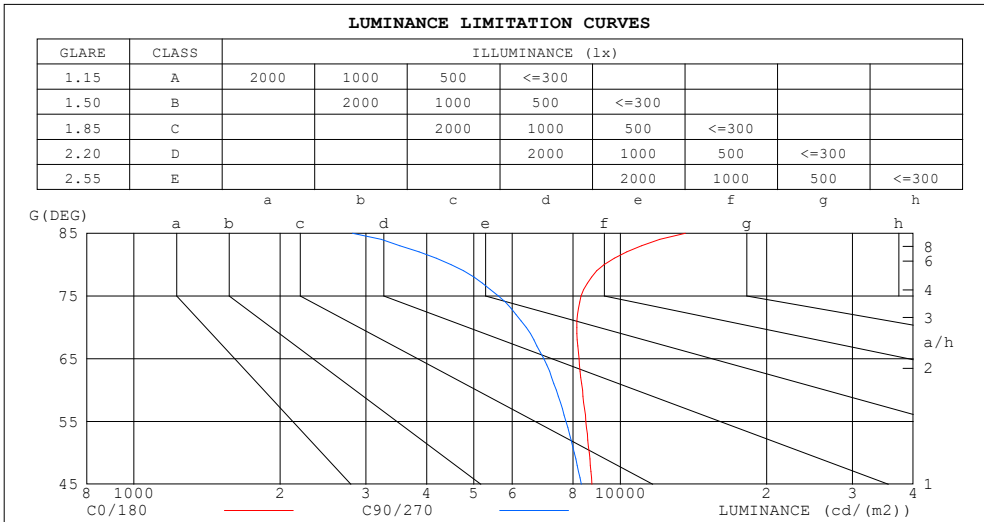
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	1606	1604	1605	1605	1623	1615	1608	1606	0- 10	155.2	155.2	3.13,3.13
20	1506	1502	1501	1508	1539	1523	1510	1511	10- 20	442.2	597.4	12,12
30	1356	1347	1338	1358	1407	1378	1351	1361	20- 30	664.8	1262	25.4,25.4
40	1170	1150	1129	1168	1237	1191	1146	1168	30- 40	794.5	2057	41.5,41.5
50	954.9	924.0	889.4	947.2	1038	975.8	909.2	946.8	40- 50	819.0	2876	58,58
60	719.3	677.9	635.2	704.6	804.4	733.6	658.7	702.8	50- 60	740.0	3616	72.9,72.9
70	479.4	426.7	377.0	453.4	561.4	483.3	404.4	454.5	60- 70	573.7	4189	84.5,84.5
80	276.6	208.2	134.1	228.9	341.5	254.5	160.7	233.0	70- 80	356.6	4546	91.6,91.6
90	148.3	85.73	3.742	99.23	194.5	111.9	11.45	97.67	80- 90	167.3	4713	95,95
100	82.23	45.67	4.151	52.14	111.1	57.47	7.819	48.32	90-100	75.19	4788	96.5,96.5
110	61.87	38.75	5.550	42.82	76.48	46.22	8.686	40.59	100-110	47.22	4836	97.5,97.5
120	54.79	34.50	6.939	39.79	66.95	43.22	9.813	36.65	110-120	38.73	4874	98.3,98.3
130	46.57	28.48	8.407	35.81	58.21	39.18	10.72	29.83	120-130	31.50	4906	98.9,98.9
140	37.57	22.50	9.563	30.88	48.40	34.13	11.31	22.98	130-140	23.22	4929	99.4,99.4
150	28.91	17.76	11.03	25.72	38.24	28.59	12.34	17.73	140-150	15.68	4945	99.7,99.7
160	21.50	14.19	12.22	20.81	28.88	22.98	13.16	14.12	150-160	9.494	4954	99.9,99.9
170	14.53	12.80	13.50	16.52	19.99	17.88	13.96	12.61	160-170	4.749	4959	100,100
180	13.72	14.44	14.46	13.60	13.88	14.42	14.36	13.64	170-180	1.392	4960	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2024-03-10

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.443
 Humidity:65.0%
 Test Distance:8.000m [K=0.7063]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:220.40V I:0.1950A P:34.900W PF:0.9810 Freq:50.00Hz		
Lamp Flux:4960.4x1 lm		
Name: NS55-35W	Type: LED	
MFR.: Lumega		



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	13614	2816
80	9261	4491
75	8305	5620
70	8149	6409
65	8225	6962
60	8364	7386
55	8501	7734
50	8637	8045
45	8750	8317

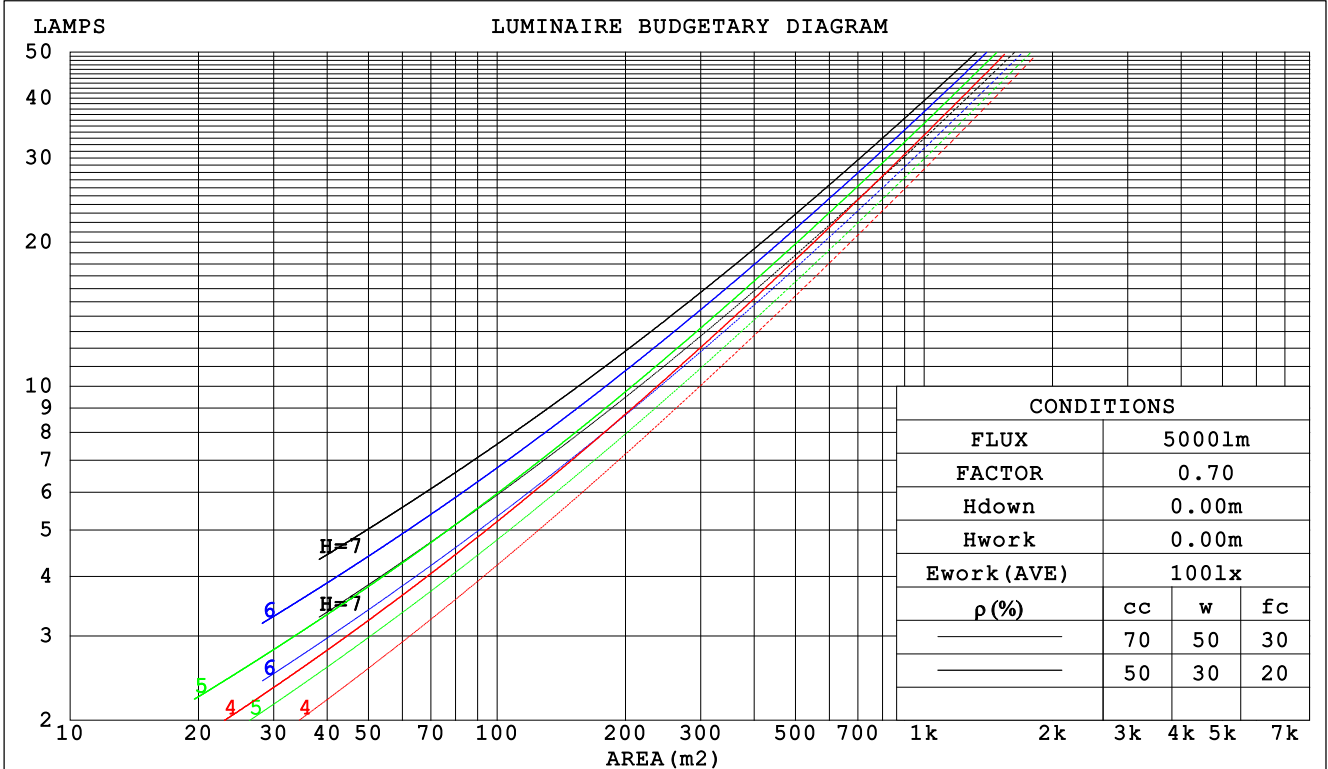
C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2024-03-10

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.443
 Humidity:65.0%
 Test Distance:8.000m [K=0.7063]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:220.40V I:0.1950A P:34.900W PF:0.9810 Freq:50.00Hz		
Lamp Flux:4960.4x1 lm		
Name: NS55-35W	Type: LED	
MFR.: Lumega		

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio															
	Coefficients of Utilization(CU)															
0.0	1.18	1.18	1.18	1.15	1.15	1.15	1.08	1.08	1.08	1.03	1.03	1.03	.97	.97	.97	.95
1.0	1.02	.97	.93	.99	.95	.91	.94	.91	.87	.89	.86	.84	.85	.83	.81	.78
2.0	.89	.81	.76	.86	.80	.74	.82	.76	.72	.78	.73	.69	.74	.70	.67	.65
3.0	.78	.69	.63	.76	.68	.62	.72	.65	.60	.68	.63	.58	.65	.61	.57	.54
4.0	.69	.60	.53	.67	.59	.52	.64	.57	.51	.61	.55	.50	.58	.53	.49	.46
5.0	.61	.52	.46	.60	.51	.45	.57	.50	.44	.55	.48	.43	.52	.47	.42	.40
6.0	.55	.46	.40	.54	.45	.39	.52	.44	.39	.49	.43	.38	.47	.42	.37	.35
7.0	.50	.41	.35	.49	.41	.35	.47	.40	.34	.45	.38	.34	.43	.37	.33	.31
8.0	.46	.37	.31	.45	.37	.31	.43	.36	.30	.41	.35	.30	.40	.34	.29	.28
9.0	.42	.34	.28	.41	.33	.28	.40	.32	.27	.38	.32	.27	.37	.31	.27	.25
10.0	.39	.31	.25	.38	.30	.25	.37	.30	.25	.35	.29	.25	.34	.28	.24	.22



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2024-03-10

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.443
 Humidity:65.0%
 Test Distance:8.000m [K=0.7063]
 Remarks:

WEC AND CCEC

Test:U:220.40V I:0.1950A P:34.900W PF:0.9810 Freq:50.00Hz		
Lamp Flux:4960.4x1 lm		
Name: NS55-35W	Type: LED	
MFR.: Lumega		

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients (WEC)									
0.0																
1.0	.325	.185	.059	.317	.181	.057	.301	.173	.055	.286	.165	.053	.272	.158	.051	
2.0	.299	.164	.050	.291	.160	.049	.277	.154	.048	.263	.148	.046	.251	.142	.045	
3.0	.274	.146	.044	.267	.143	.043	.254	.138	.042	.242	.133	.041	.231	.128	.040	
4.0	.251	.130	.038	.245	.128	.038	.233	.124	.037	.223	.120	.036	.213	.116	.035	
5.0	.231	.118	.034	.226	.116	.034	.215	.112	.033	.206	.109	.032	.197	.105	.032	
6.0	.214	.107	.031	.209	.106	.030	.200	.102	.030	.191	.099	.029	.183	.096	.029	
7.0	.199	.098	.028	.194	.097	.028	.186	.094	.027	.178	.091	.027	.171	.089	.026	
8.0	.185	.091	.025	.181	.089	.025	.174	.087	.025	.167	.084	.024	.160	.082	.024	
9.0	.174	.084	.023	.170	.083	.023	.163	.081	.023	.157	.079	.022	.151	.076	.022	
10.0	.163	.078	.022	.160	.077	.022	.154	.075	.021	.148	.073	.021	.142	.071	.020	

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients (CCEC)									
0.0	.228	.228	.228	.195	.195	.195	.133	.133	.133	.077	.077	.077	.024	.024	.024	
1.0	.220	.194	.171	.188	.167	.148	.129	.115	.102	.074	.066	.059	.024	.021	.019	
2.0	.212	.170	.136	.181	.147	.117	.124	.101	.082	.072	.059	.048	.023	.019	.016	
3.0	.204	.153	.113	.175	.132	.098	.120	.092	.068	.069	.054	.040	.022	.017	.013	
4.0	.196	.140	.097	.168	.121	.084	.116	.084	.059	.067	.049	.035	.022	.016	.012	
5.0	.189	.130	.086	.162	.112	.075	.112	.078	.053	.065	.046	.031	.021	.015	.010	
6.0	.181	.121	.078	.156	.105	.068	.108	.074	.048	.062	.043	.029	.020	.014	.009	
7.0	.175	.115	.072	.150	.099	.063	.104	.070	.045	.060	.041	.027	.019	.013	.009	
8.0	.168	.109	.068	.145	.094	.059	.100	.066	.042	.058	.039	.025	.019	.013	.008	
9.0	.162	.104	.065	.140	.090	.056	.097	.063	.040	.056	.037	.024	.018	.012	.008	
10.0	.156	.100	.062	.135	.087	.054	.094	.061	.038	.055	.036	.023	.018	.012	.008	

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2024-03-10

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.443
 Humidity:65.0%
 Test Distance:8.000m [K=0.7063]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:220.40V I:0.1950A P:34.900W PF:0.9810 Freq:50.00Hz		
Lamp Flux:4960.4x1 lm		
Name: NS55-35W	Type: LED	
MFR.: Lumega		

ceiling/cavity	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
x = 2H y = 2H	19.9	21.4	20.3	21.7	22.0	19.4	20.9	19.8	21.2	21.5
3H	21.6	22.9	21.9	23.3	23.6	20.8	22.1	21.2	22.5	22.8
4H	22.3	23.6	22.7	24.0	24.3	21.3	22.6	21.7	22.9	23.3
6H	23.1	24.3	23.5	24.6	25.0	21.6	22.8	22.0	23.2	23.5
8H	23.4	24.6	23.9	25.0	25.4	21.6	22.8	22.1	23.2	23.6
12H	23.9	25.0	24.3	25.4	25.8	21.7	22.8	22.1	23.2	23.6
4H 2H	20.5	21.7	20.8	22.1	22.4	20.1	21.3	20.4	21.7	22.0
3H	22.3	23.4	22.7	23.8	24.2	21.6	22.7	22.0	23.1	23.5
4H	23.2	24.2	23.7	24.7	25.1	22.2	23.2	22.7	23.6	24.1
6H	24.1	25.0	24.6	25.5	25.9	22.6	23.5	23.1	24.0	24.5
8H	24.6	25.4	25.1	25.9	26.4	22.7	23.6	23.2	24.1	24.5
12H	25.1	25.9	25.6	26.4	26.9	22.8	23.6	23.3	24.0	24.6
8H 4H	23.4	24.3	23.9	24.8	25.2	22.6	23.4	23.0	23.9	24.4
6H	24.6	25.3	25.1	25.8	26.3	23.1	23.8	23.6	24.3	24.9
8H	25.2	25.8	25.7	26.3	26.9	23.3	24.0	23.9	24.5	25.0
12H	25.9	26.4	26.4	27.0	27.6	23.5	24.0	24.0	24.5	25.1
12H 4H	23.4	24.2	23.9	24.7	25.2	22.6	23.4	23.1	23.9	24.4
6H	24.6	25.2	25.1	25.8	26.3	23.3	23.9	23.8	24.4	25.0
8H	25.3	25.8	25.9	26.4	27.0	23.5	24.1	24.1	24.6	25.2
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 0.1 / - 0.2					+ 0.2 / - 0.2				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H	+ 0.1 / - 0.3					+ 0.2 / - 0.3				

CIE Pub.117, 4960 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 5.6)
 Area: 0.172 m2

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2024-03-10

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.443
 Humidity:65.0%
 Test Distance:8.000m [K=0.7063]
 Remarks:

UTILIZATION FACTORS TABLE

Test:U:220.40V I:0.1950A P:34.900W PF:0.9810 Freq:50.00Hz		
Lamp Flux:4960.4x1 lm		
Name: NS55-35W	Type: LED	
MFR.: Lumega		

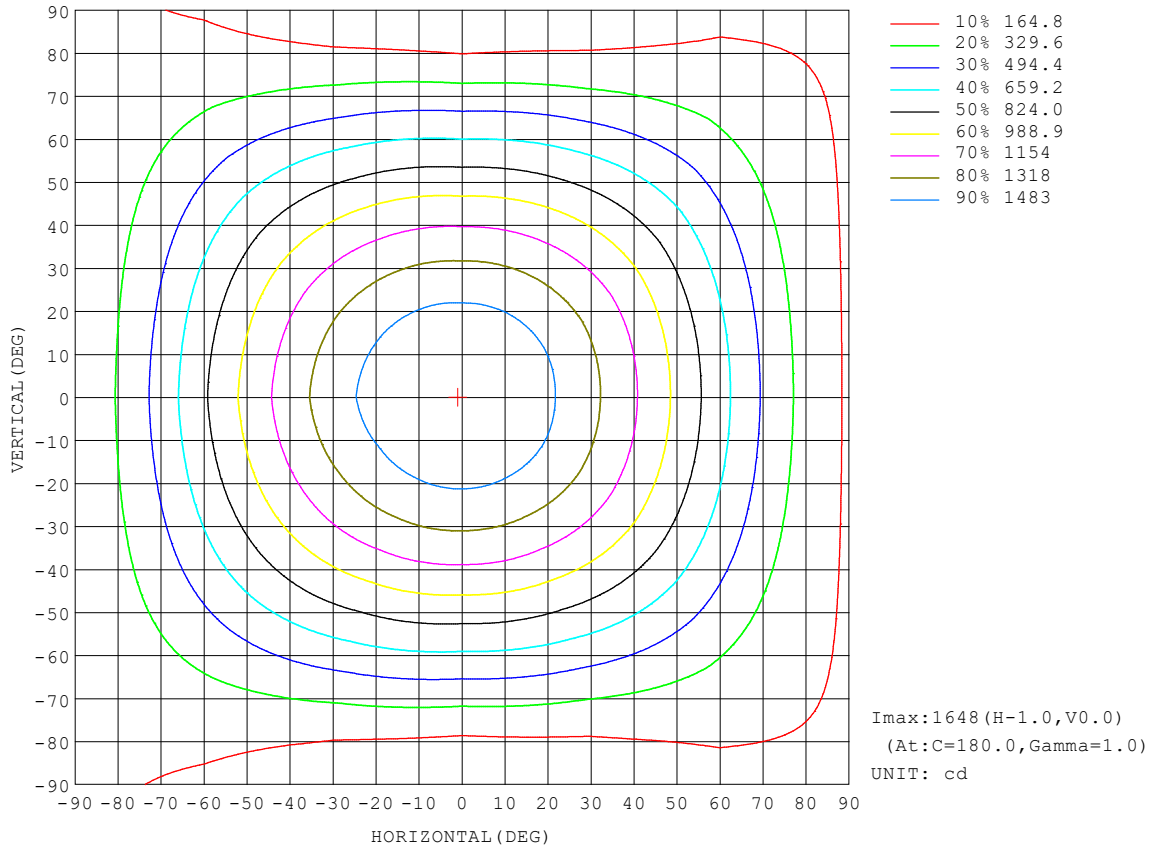
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	56	44	37	55	44	37	53	43	36	30
0.80	65	53	46	64	53	46	62	52	45	38
1.00	74	62	55	72	61	54	70	62	54	46
1.25	81	70	62	79	69	62	76	67	61	53
1.50	86	75	68	84	74	67	80	72	66	58
2.00	92	83	76	90	82	76	86	79	74	65
2.50	96	88	82	94	86	80	89	83	78	69
3.00	100	92	86	97	91	85	92	87	82	73
4.00	104	98	93	101	96	91	96	92	88	77
5.00	106	101	97	104	99	95	98	94	91	80
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2024-03-10

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.443
 Humidity:65.0%
 Test Distance:8.000m [K=0.7063]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:220.40V I:0.1950A P:34.900W PF:0.9810 Freq:50.00Hz		
Lamp Flux:4960.4x1 lm		
Name: NS55-35W	Type: LED	
MFR.: Lumega		

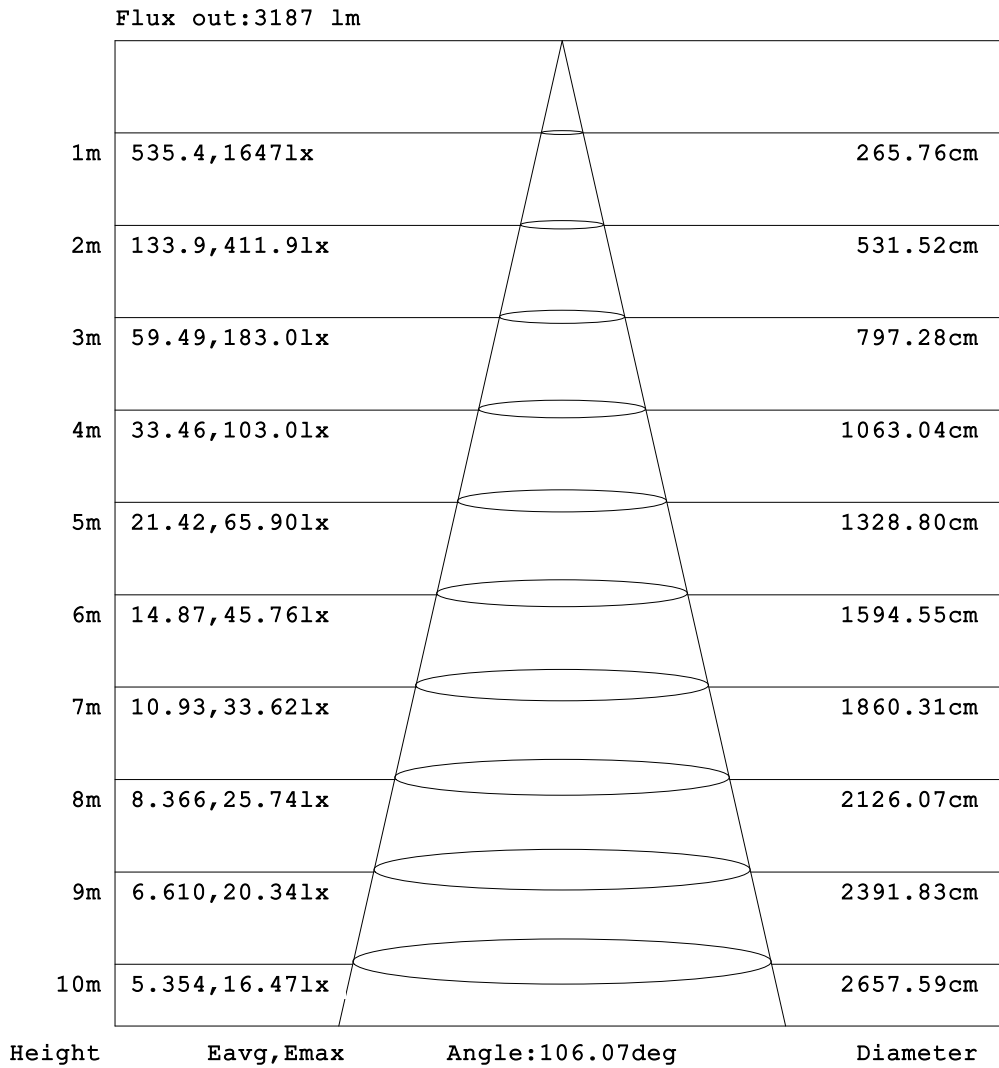


C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2024-03-10

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.443
 Humidity:65.0%
 Test Distance:8.000m [K=0.7063]
 Remarks:

AAI Figure

Test:U:220.40V I:0.1950A P:34.900W PF:0.9810 Freq:50.00Hz		
Lamp Flux:4960.4x1 lm		
Name: NS55-35W	Type: LED	
MFR.: Lumega		



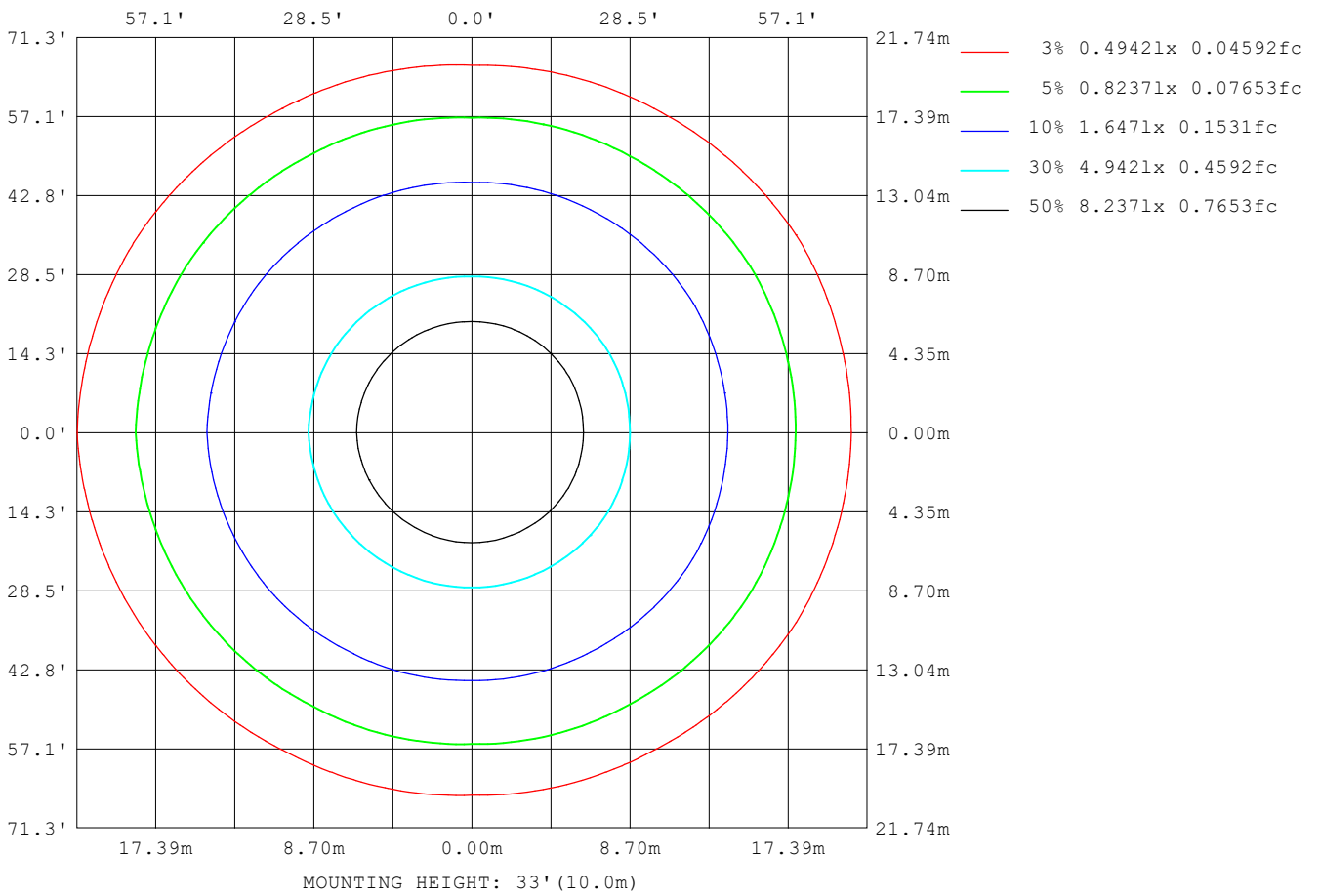
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2024-03-10

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.443
 Humidity:65.0%
 Test Distance:8.000m [K=0.7063]
 Remarks:

ISOLUX DIAGRAM

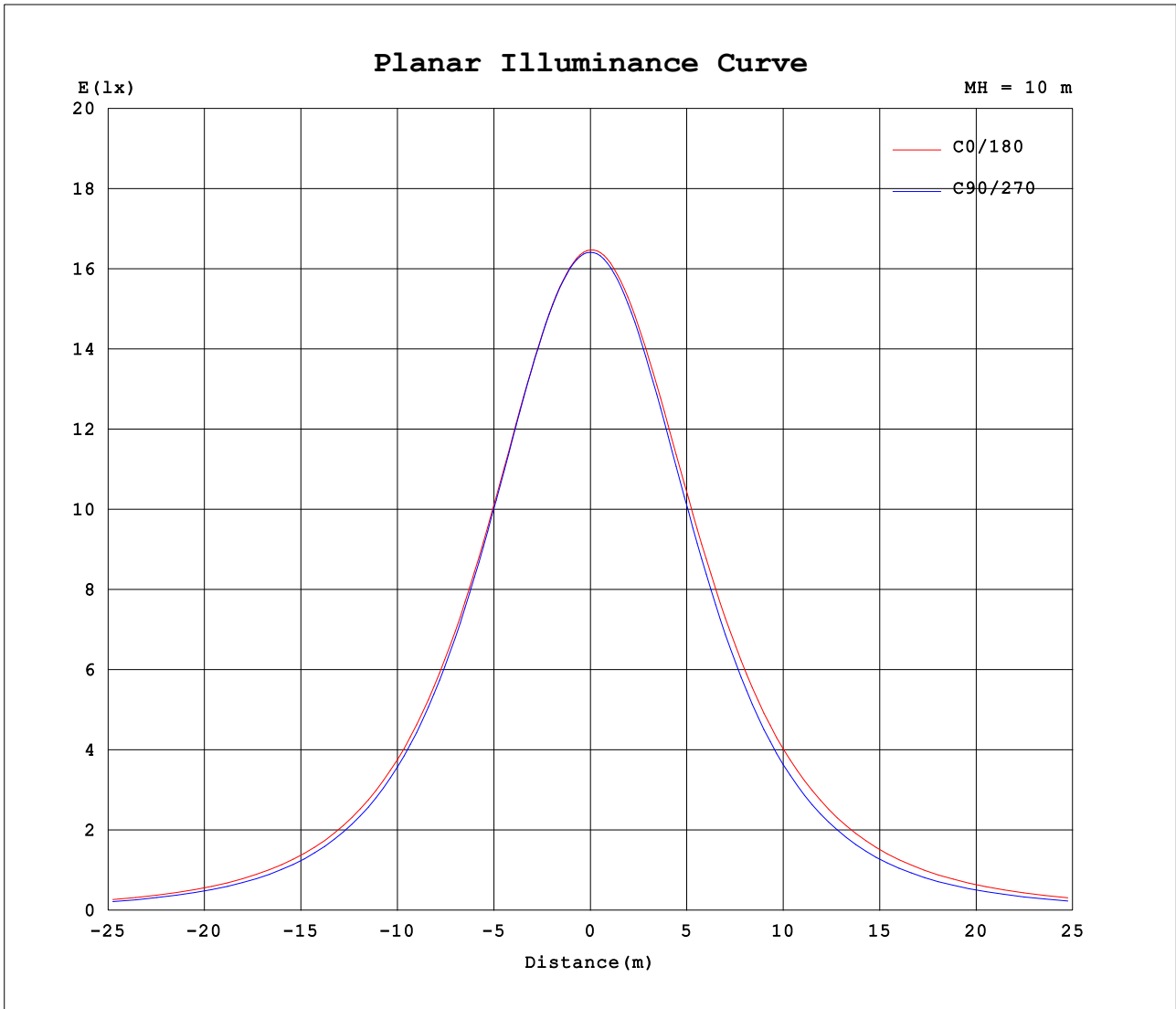
Test:U:220.40V I:0.1950A P:34.900W PF:0.9810 Freq:50.00Hz		
Lamp Flux:4960.4x1 lm		
Name: NS55-35W	Type: LED	
MFR.: Lumega		



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2024-03-10

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.443
 Humidity:65.0%
 Test Distance:8.000m [K=0.7063]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: DAMIN
 Test Date: 2024-03-10

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.443
 Humidity: 65.0%
 Test Distance: 8.000m [K=0.7063]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.40V I:0.1950A P:34.900W PF:0.9810 Freq:50.00Hz		
Lamp Flux:4960.4x1 lm		
Name: NS55-35W	Type: LED	
MFR.: Lumega		

Table--1

UNIT: cd

C (DEG) \ γ (DEG)	0	30	60	90	120	150	180	210	240	270	300	330							
0	1647	1645	1642	1642	1640	1640	1647	1645	1642	1642	1640	1640							
5	1635	1634	1631	1632	1631	1632	1644	1639	1636	1634	1633	1631							
10	1606	1606	1603	1605	1604	1607	1623	1616	1613	1608	1608	1605							
15	1563	1563	1560	1561	1562	1567	1588	1579	1574	1567	1567	1566							
20	1506	1505	1500	1501	1504	1512	1539	1528	1519	1510	1511	1512							
25	1436	1435	1426	1426	1431	1447	1478	1464	1449	1436	1440	1444							
30	1356	1354	1340	1338	1346	1371	1407	1390	1366	1351	1356	1365							
35	1267	1263	1243	1238	1251	1285	1326	1305	1273	1253	1262	1276							
40	1170	1164	1137	1129	1146	1190	1237	1212	1171	1146	1158	1178							
45	1064	1057	1022	1012	1033	1087	1139	1110	1061	1029	1046	1072							
50	955	944	905	889	917	977	1038	1002	950	909	933	961							
55	839	825	781	763	795	860	922	887	826	785	808	844							
60	719	702	654	635	670	739	804	766	702	659	683	723							
65	598	579	526	506	543	617	683	643	576	532	557	601							
70	479	456	397	377	415	491	561	519	448	404	430	479							
75	370	342	276	250	293	375	444	400	326	279	309	365							
80	277	247	169	134	183	275	342	296	213	161	200	266							
85	204	174	95.1	42.2	105	197	259	213	126	63.3	116	188							
90	148	120	51.5	3.74	58.4	140	195	152	71.5	11.5	64.2	131							
95	108	84.0	31.5	3.80	35.8	99.9	146	109	43.5	7.64	37.8	91.9							
100	82.2	63.9	27.4	4.15	29.7	74.5	111	81.4	33.6	7.82	29.9	66.7							
105	68.1	54.8	27.0	4.89	29.3	61.5	88.9	66.4	32.3	8.21	29.0	56.7							
110	61.9	51.3	26.2	5.55	29.2	56.5	76.5	60.3	32.1	8.69	28.0	53.2							
115	58.2	48.9	24.3	6.15	28.7	54.1	70.8	57.7	31.8	9.21	26.8	51.1							
120	54.8	46.3	22.7	6.94	28.0	51.5	66.9	55.2	31.2	9.81	24.6	48.7							
125	50.9	42.3	21.1	7.72	27.2	48.7	62.9	52.3	30.4	10.3	22.5	45.8							
130	46.6	37.5	19.5	8.41	26.2	45.4	58.2	48.9	29.4	10.7	20.3	39.4							
135	42.1	32.4	17.9	8.97	25.1	41.8	53.5	45.3	28.2	11.0	18.5	33.4							
140	37.6	28.7	16.3	9.56	23.8	38.0	48.4	41.5	26.8	11.3	16.7	29.2							
145	33.1	24.9	14.9	10.4	22.3	34.3	43.2	37.5	25.2	11.9	15.2	24.9							
150	28.9	21.4	14.1	11.0	20.8	30.6	38.2	33.7	23.5	12.3	14.4	21.0							
155	25.1	18.3	13.4	11.6	19.3	27.1	33.5	29.9	21.7	12.8	13.8	17.8							
160	21.5	15.6	12.7	12.2	17.9	23.7	28.9	26.1	19.9	13.2	13.2	15.1							
165	17.8	13.5	12.6	12.9	16.6	20.5	24.0	22.6	18.1	13.6	13.0	12.8							
170	14.5	12.7	12.9	13.5	15.6	17.4	20.0	19.2	16.6	14.0	13.1	12.1							
175	12.5	12.9	13.5	14.0	15.0	15.2	16.8	16.4	15.5	14.2	13.4	12.1							
180	13.7	14.4	14.5	14.5	14.1	13.1	13.9	14.4	14.5	14.4	14.1	13.1							

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2024-03-10

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.443
 Humidity:65.0%
 Test Distance:8.000m [K=0.7063]
 Remarks: