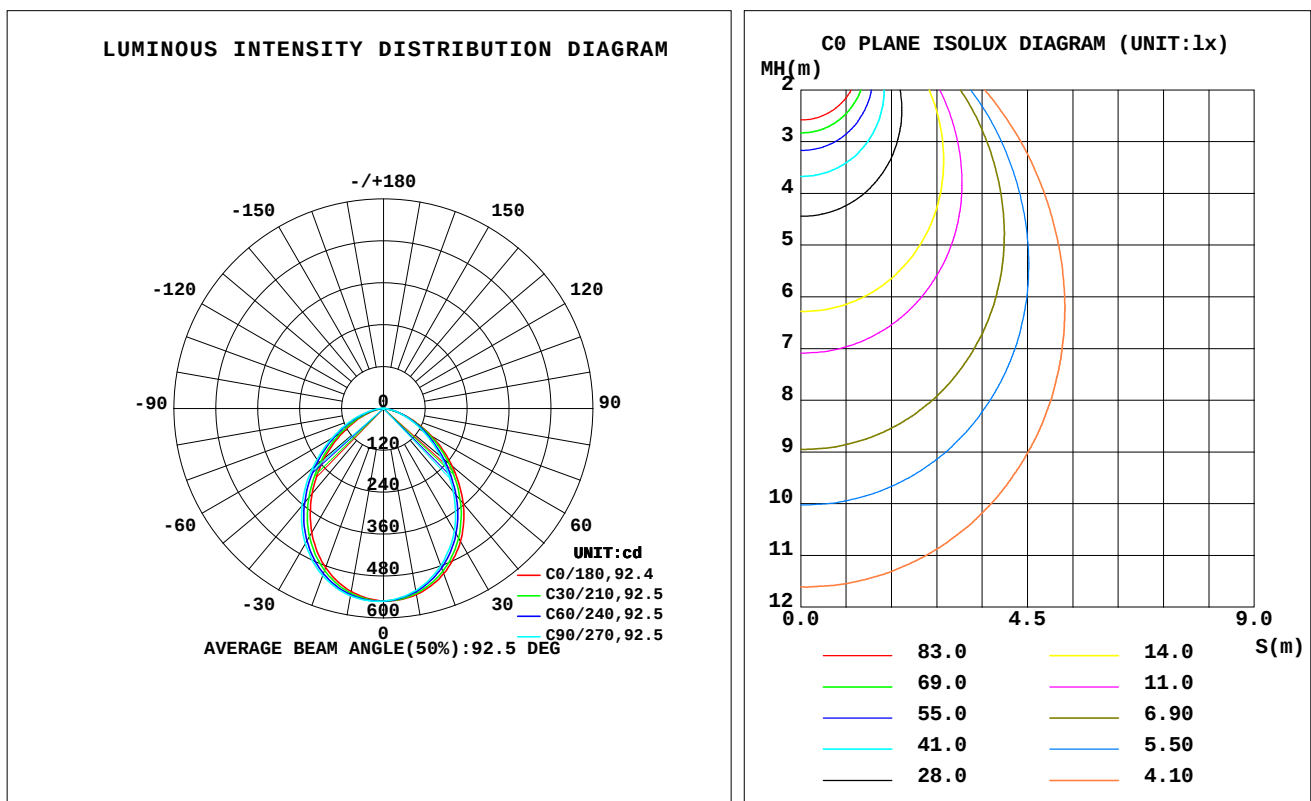


LUMINAIRE PHOTOMETRIC TEST REPORT

NAME: ASD-LRK-GBR-6D15AC-WH-BZ 5000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD LIGHTING CORP	SUR.: 0.175*0.175	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 84.88 lm/W			
ASD-LRK-GBR-6D15CC-WH-BZ(5000K)	Imax(cd)	553.2	S/MH(C0/180)	1.13	
NOMINAL POWER(W)	15	LOR(%)	100.0	S/MH(C90/270)	1.21
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	1221.5	h UP, DN(C0-180)	0.5, 47.5
NOMINAL FLUX(lm)	1221.46	CIE CLASS	DIRECT	h UP, DN(C180-360)	0.4, 51.6
LAMPS INSIDE	1	h up(%)	0.9	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	120.0	h down(%)	99.1	CIBSE SHR MAX	1.30



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2021-12-23

g Range: 0 - 180DEG
g Interval: 1.0DEG
Test System: EVERFINE G0-2000B_V1 SYSTEM V2.00.426
Humidity: 65.0%
Test Distance: 8.000m [K=1.0750]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

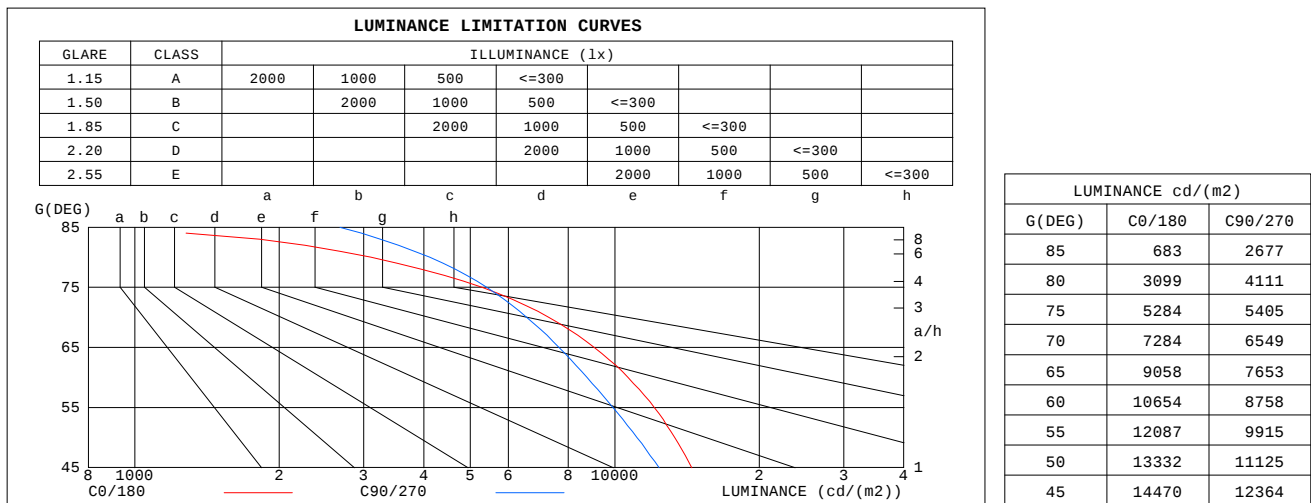
g	C0	C45	C90	C135	C180	C225	C270	C315	g	F zone	F total	%lum, lamp
10	541.1	535.3	529.3	528.2	532.3	539.4	544.8	545.9	0- 10	51.95	51.95	4.25, 4.25
20	503.3	491.4	479.5	476.4	485.2	498.8	509.3	511.9	10- 20	146.2	198.2	16.2, 16.2
30	440.6	422.4	405.0	399.8	411.3	431.5	447.7	451.5	20- 30	213.0	411.1	33.7, 33.7
40	355.1	332.1	311.6	304.9	318.6	342.4	363.4	367.7	30- 40	239.4	650.5	53.3, 53.3
50	256.6	234.9	214.5	209.7	221.6	244.0	265.6	270.2	40- 50	222.1	872.6	71.4, 71.4
60	159.5	145.5	131.3	127.2	131.2	153.3	170.9	174.1	50- 60	172.8	1045	85.6, 85.6
70	74.61	71.03	67.18	61.61	61.08	77.67	92.66	90.00	60- 70	109.3	1155	94.5, 94.5
80	16.12	17.31	21.41	15.79	14.64	22.83	33.57	25.54	70- 80	48.04	1203	98.5, 98.5
90	0.2654	0.3202	0.3749	0.3969	0.2602	0.3015	0.7298	0.2450	80- 90	7.616	1210	99.1, 99.1
100	0.5819	0.6692	0.7445	0.7529	0.5980	0.5593	0.4940	0.5027	90-100	0.5404	1211	99.1, 99.1
110	1.028	1.137	1.249	1.243	1.066	0.9810	0.9101	0.8729	100-110	0.8825	1212	99.2, 99.2
120	1.548	1.678	1.806	1.795	1.601	1.494	1.415	1.365	110-120	1.307	1213	99.3, 99.3
130	2.093	2.225	2.373	2.355	2.141	2.022	1.940	1.886	120-130	1.660	1215	99.5, 99.5
140	2.634	2.761	2.888	2.877	2.661	2.545	2.476	2.426	130-140	1.849	1217	99.6, 99.6
150	3.143	3.234	3.336	3.327	3.160	3.031	2.971	2.929	140-150	1.817	1218	99.8, 99.8
160	3.595	3.640	3.710	3.715	3.612	3.482	3.424	3.398	150-160	1.547	1220	99.9, 99.9
170	3.943	4.002	4.038	4.041	3.986	3.908	3.855	3.843	160-170	1.062	1221	100, 100
180	4.193	4.197	4.168	4.171	4.198	4.200	4.173	4.174	170-180	0.3866	1221	100, 100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2021-12-23

g Range: 0 - 180DEG
g Interval: 1.0DEG
Test System: EVERFINE G0-2000B_V1 SYSTEM V2.00.426
Humidity: 65.0%
Test Distance: 8.000m [K=1.0750]
Remarks:

LUMINANCE LIMITATION CURVES

NAME: ASD-LRK-GBR-6D15AC-WH-BZ 5000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD LIGHTING CORP	SUR.: 0.175*0.175	Shielding Angle:



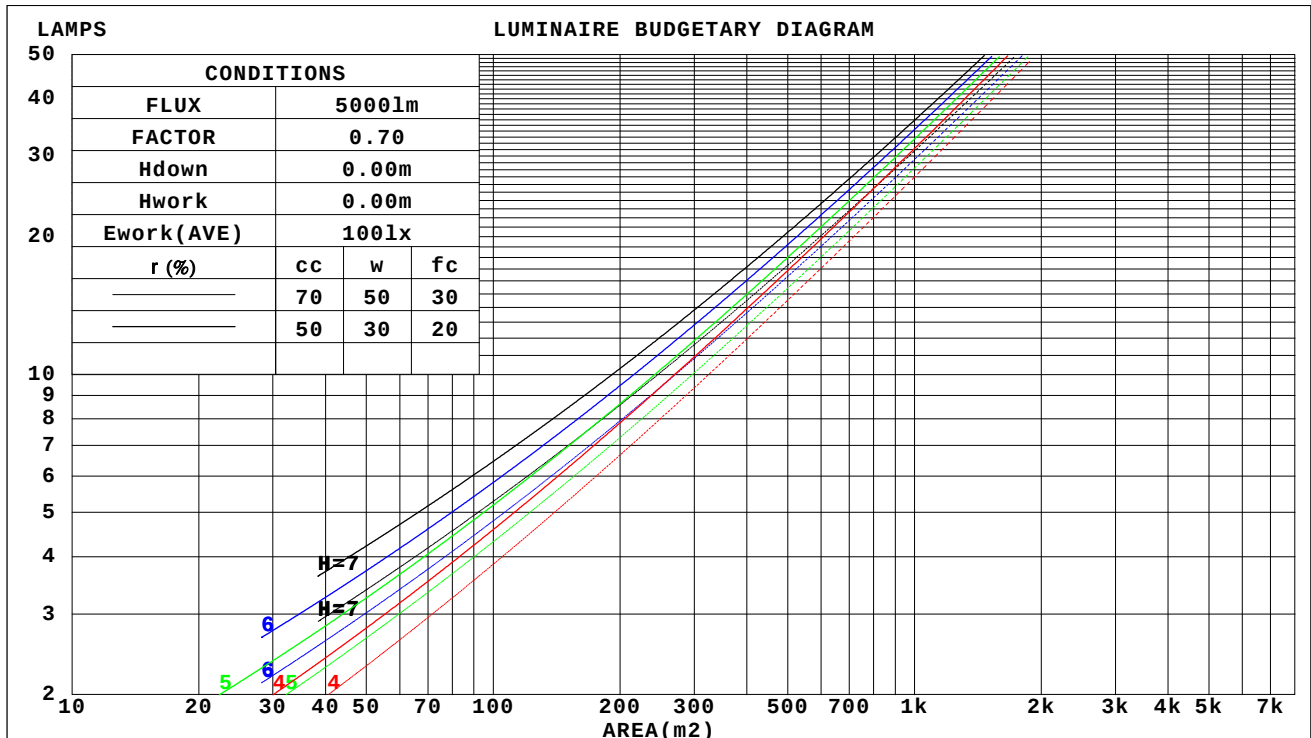
C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2021-12-23

g Range: 0 - 180DEG
g Interval: 1.0DEG
Test System: EVERFINE G0-2000B_V1 SYSTEM V2.00.426
Humidity: 65.0%
Test Distance: 8.000m [K=1.0750]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

NAME: ASD-LRK-GBR-6D15AC-WH-BZ 5000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD LIGHTING CORP	SUR.: 0.175*0.175	Shielding Angle:

r cc	80%			70%			50%			30%			10%			0
r w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
r fc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio															



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2021-12-23

g Range: 0 - 180DEG
g Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.426
Humidity: 65.0%
Test Distance: 8.000m [K=1.0750]
Remarks:

WEC AND CCEC

NAME:ASD-LRK-GBR-6D15AC-WH-BZ 5000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD LIGHTING CORP	SUR.: 0.175*0.175	Shielding Angle:

r cc	80%			70%			50%			30%			10%			0
r w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
r fc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.268	.152	.048	.260	.149	.047	.247	.142	.045	.234	.135	.043	.223	.129	.042	
2.0	.258	.141	.043	.252	.139	.043	.240	.133	.041	.229	.128	.040	.219	.124	.039	
3.0	.243	.129	.039	.237	.127	.038	.227	.123	.037	.217	.119	.037	.208	.115	.036	
4.0	.227	.118	.035	.222	.116	.034	.213	.113	.034	.204	.110	.033	.196	.107	.032	
5.0	.212	.108	.031	.208	.107	.031	.200	.104	.031	.192	.101	.030	.185	.099	.030	
6.0	.199	.100	.028	.195	.098	.028	.187	.096	.028	.180	.094	.028	.174	.092	.027	
7.0	.186	.092	.026	.183	.091	.026	.176	.089	.026	.170	.087	.025	.164	.085	.025	
8.0	.175	.085	.024	.172	.085	.024	.166	.083	.024	.160	.081	.023	.155	.080	.023	
9.0	.165	.080	.022	.162	.079	.022	.157	.077	.022	.152	.076	.022	.147	.075	.022	
10.0	.156	.075	.021	.153	.074	.021	.148	.073	.020	.144	.071	.020	.139	.070	.020	

r cc	80%			70%			50%			30%			10%			0
r w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
r fc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.197	.197	.197	.169	.169	.169	.115	.115	.115	.066	.066	.066	.021	.021	.021	
1.0	.184	.163	.145	.158	.140	.124	.108	.097	.086	.062	.056	.050	.020	.018	.016	
2.0	.175	.139	.109	.150	.120	.094	.103	.083	.066	.059	.048	.039	.019	.016	.013	
3.0	.166	.121	.085	.143	.105	.074	.098	.073	.052	.057	.042	.031	.018	.014	.010	
4.0	.158	.108	.069	.136	.093	.060	.094	.065	.042	.054	.038	.025	.017	.012	.008	
5.0	.151	.097	.057	.130	.084	.050	.089	.059	.035	.052	.034	.021	.017	.011	.007	
6.0	.144	.088	.048	.124	.077	.042	.086	.054	.030	.050	.032	.018	.016	.010	.006	
7.0	.138	.081	.042	.118	.071	.037	.082	.050	.026	.048	.029	.015	.015	.010	.005	
8.0	.132	.076	.037	.113	.066	.032	.078	.046	.023	.046	.027	.014	.015	.009	.005	
9.0	.126	.071	.033	.108	.061	.029	.075	.043	.021	.044	.025	.012	.014	.008	.004	
10.0	.121	.066	.030	.104	.058	.027	.072	.041	.019	.042	.024	.011	.014	.008	.004	

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2021-12-23

g Range: 0 - 180DEG
g Interval: 1.0DEG
Test System: EVERFINE G0-2000B_V1 SYSTEM V2.00.426
Humidity: 65.0%
Test Distance: 8.000m [K=1.0750]
Remarks:

UGR(Unified Glare Rating) Table

NAME:ASD-LRK-GBR-6D15AC-WH-BZ 5000K					TYPE:			WEIGHT:			
SPEC.:					DIM.:			SERIAL No.:			
MFR.: ASD LIGHTING CORP					SUR.: 0.175*0.175			Shielding Angle:			
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	2H	20.4	21.8	20.6	22.0	22.2	19.6	21.0	19.9	21.2	21.4
	3H	21.2	22.5	21.5	22.7	23.0	20.5	21.8	20.8	22.0	22.2
	4H	21.4	22.6	21.7	22.9	23.2	20.8	22.0	21.1	22.2	22.5
	6H	21.5	22.6	21.8	22.9	23.2	20.9	22.0	21.2	22.3	22.6
	8H	21.4	22.5	21.8	22.8	23.1	20.9	22.0	21.2	22.3	22.6
	12H	21.4	22.4	21.8	22.7	23.1	20.9	21.9	21.2	22.2	22.6
4H	2H	20.7	21.9	21.0	22.2	22.4	20.1	21.3	20.4	21.5	21.8
	3H	21.7	22.7	22.0	23.0	23.4	21.1	22.1	21.5	22.4	22.8
	4H	22.0	22.9	22.3	23.3	23.6	21.5	22.4	21.8	22.7	23.1
	6H	22.1	22.9	22.5	23.3	23.6	21.7	22.5	22.1	22.9	23.2
	8H	22.0	22.8	22.5	23.2	23.6	21.7	22.5	22.1	22.8	23.2
	12H	22.0	22.7	22.4	23.1	23.5	21.7	22.4	22.1	22.8	23.2
8H	4H	22.0	22.8	22.4	23.2	23.6	21.5	22.3	22.0	22.7	23.1
	6H	22.1	22.8	22.6	23.2	23.7	21.8	22.4	22.3	22.9	23.3
	8H	22.2	22.7	22.6	23.2	23.6	21.9	22.4	22.3	22.9	23.3
	12H	22.1	22.6	22.6	23.1	23.6	21.9	22.4	22.4	22.8	23.3
12H	4H	22.0	22.7	22.4	23.1	23.5	21.5	22.2	21.9	22.6	23.0
	6H	22.1	22.7	22.6	23.1	23.6	21.8	22.3	22.3	22.8	23.3
	8H	22.1	22.6	22.6	23.1	23.6	21.9	22.3	22.3	22.8	23.3
Variations with the observer position at spacings(CIE Pub.117):											
S = 1.0H	+ 0.3 / - 0.4					+ 0.4 / - 0.5					
1.5H	+ 0.2 / - 0.3					+ 0.1 / - 0.3					
2.0H	+ 0.7 / - 0.7					+ 0.5 / - 0.7					

CIE Pub.117, 1221 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = 0.7$)
Area: 0.03 m²

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2021-12-23

g Range: 0 - 180DEG
g Interval: 1.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.00.426
Humidity:65.0%
Test Distance:8.000m [K=1.0750]
Remarks:

UTILIZATION FACTORS TABLE

NAME: ASD-LRK-GBR-6D15AC-WH-BZ 5000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD LIGHTING CORP	SUR.: 0.175*0.175	Shielding Angle:

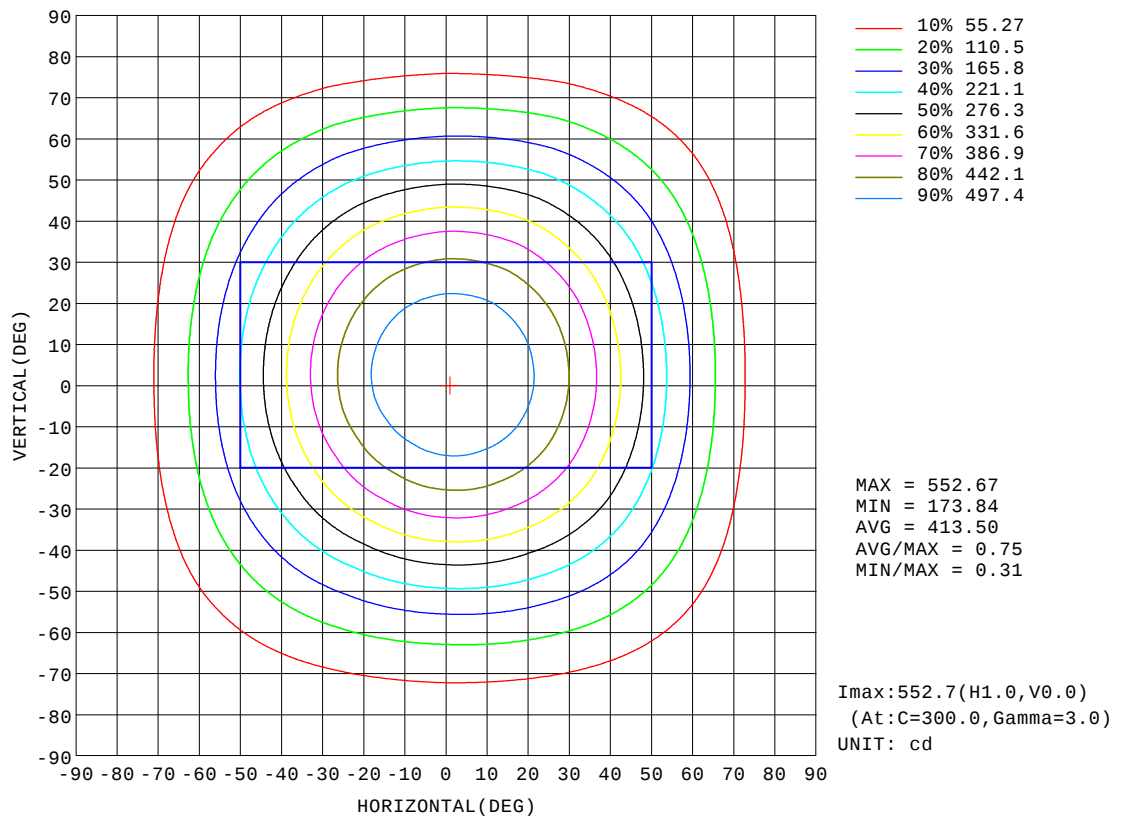
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	62	52	45	62	51	45	60	51	45	39
0.80	72	62	55	71	61	55	70	61	55	48
1.00	81	71	64	79	70	64	77	71	63	57
1.25	87	78	72	86	77	71	83	76	70	64
1.50	92	83	77	90	82	77	87	81	76	69
2.00	98	91	85	96	90	84	93	87	83	75
2.50	102	95	90	100	93	89	96	91	87	79
3.00	105	99	94	102	97	93	98	94	90	82
4.00	108	103	99	106	101	98	101	98	95	86
5.00	110	106	102	108	104	101	103	100	98	89
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:
Test Date: 2021-12-23

g Range: 0 - 180DEG
g Interval: 1.0DEG
Test System: EVERFINE G0-2000B_V1 SYSTEM V2.00.426
Humidity: 65.0%
Test Distance: 8.000m [K=1.0750]
Remarks:

ISOCANDELA DIAGRAM

NAME: ASD-LRK-GBR-6D15AC-WH-BZ 5000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD LIGHTING CORP	SUR.: 0.175*0.175	Shielding Angle:

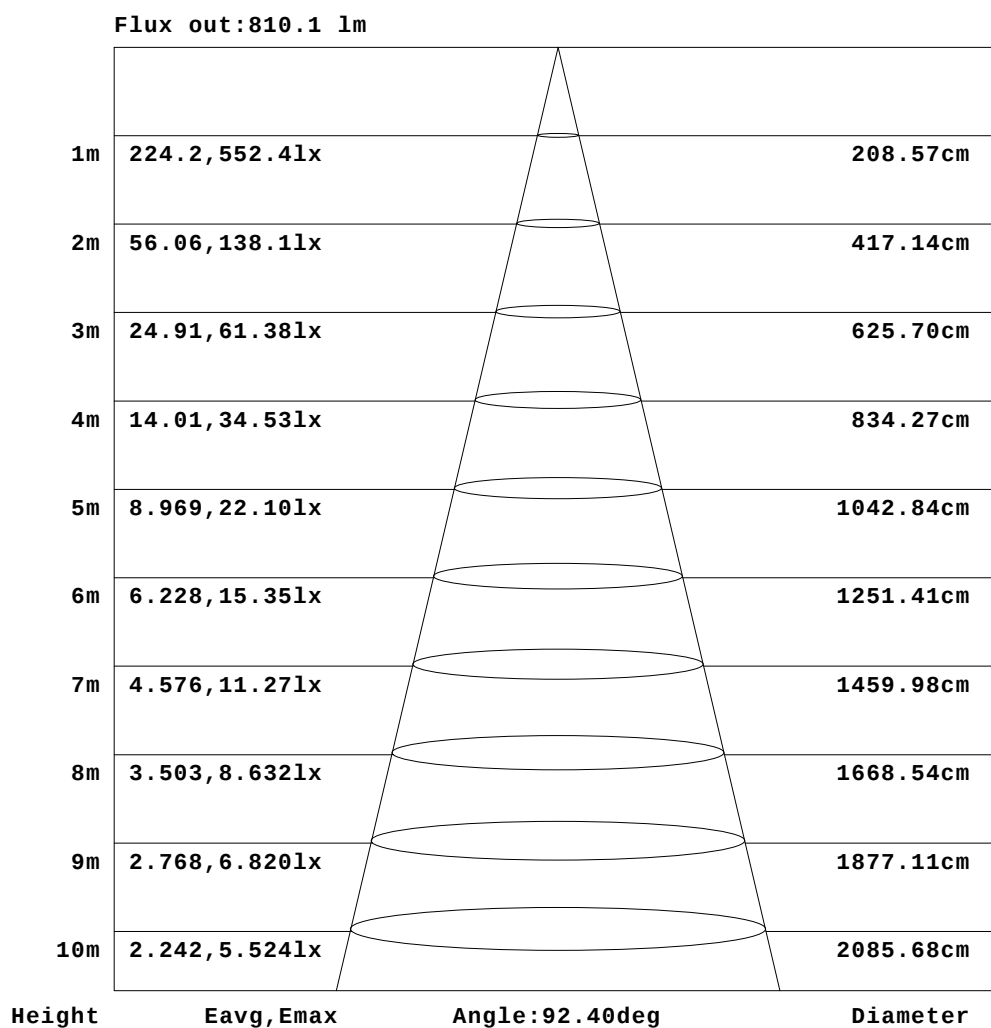


C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2021-12-23

g Range: 0 - 180DEG
g Interval: 1.0DEG
Test System: EVERFINE G0-2000B_V1 SYSTEM V2.00.426
Humidity: 65.0%
Test Distance: 8.000m [K=1.0750]
Remarks:

AAI Figure

NAME: ASD-LRK-GBR-6D15AC-WH-BZ 5000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD LIGHTING CORP	SUR.: 0.175*0.175	Shielding Angle:



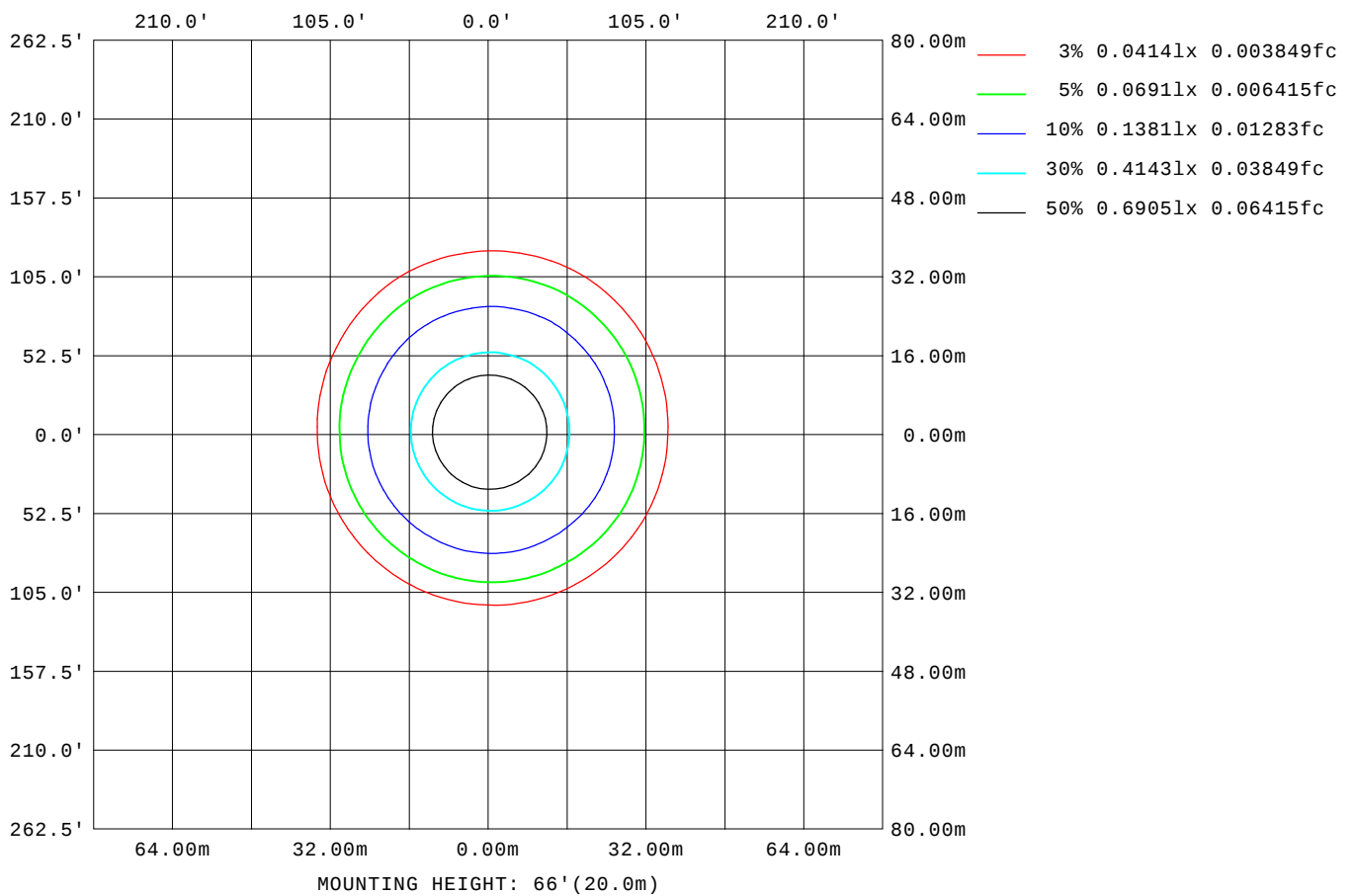
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2021-12-23

g Range: 0 - 180DEG
g Interval: 1.0DEG
Test System: EVERFINE G0-2000B_V1 SYSTEM V2.00.426
Humidity: 65.0%
Test Distance: 8.000m [K=1.0750]
Remarks:

ISOLUX DIAGRAM

NAME: ASD-LRK-GBR-6D15AC-WH-BZ 5000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD LIGHTING CORP	SUR.: 0.175*0.175	Shielding Angle:



C Range: 0 - 360DEG
 C Interval: 30.00DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2021-12-23

g Range: 0 - 180DEG
 g Interval: 1.00DEG
 Test System: EVERFINE G0-2000B_V1 SYSTEM V2.00.426
 Humidity: 65.0%
 Test Distance: 8.000m [K=1.0750]
 Remarks:

LED Avg.L Report

NAME:ASD-LRK-GBR-6D15AC-WH-BZ 5000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD LIGHTING CORP	SUR.: 0.175*0.175	Shielding Angle:

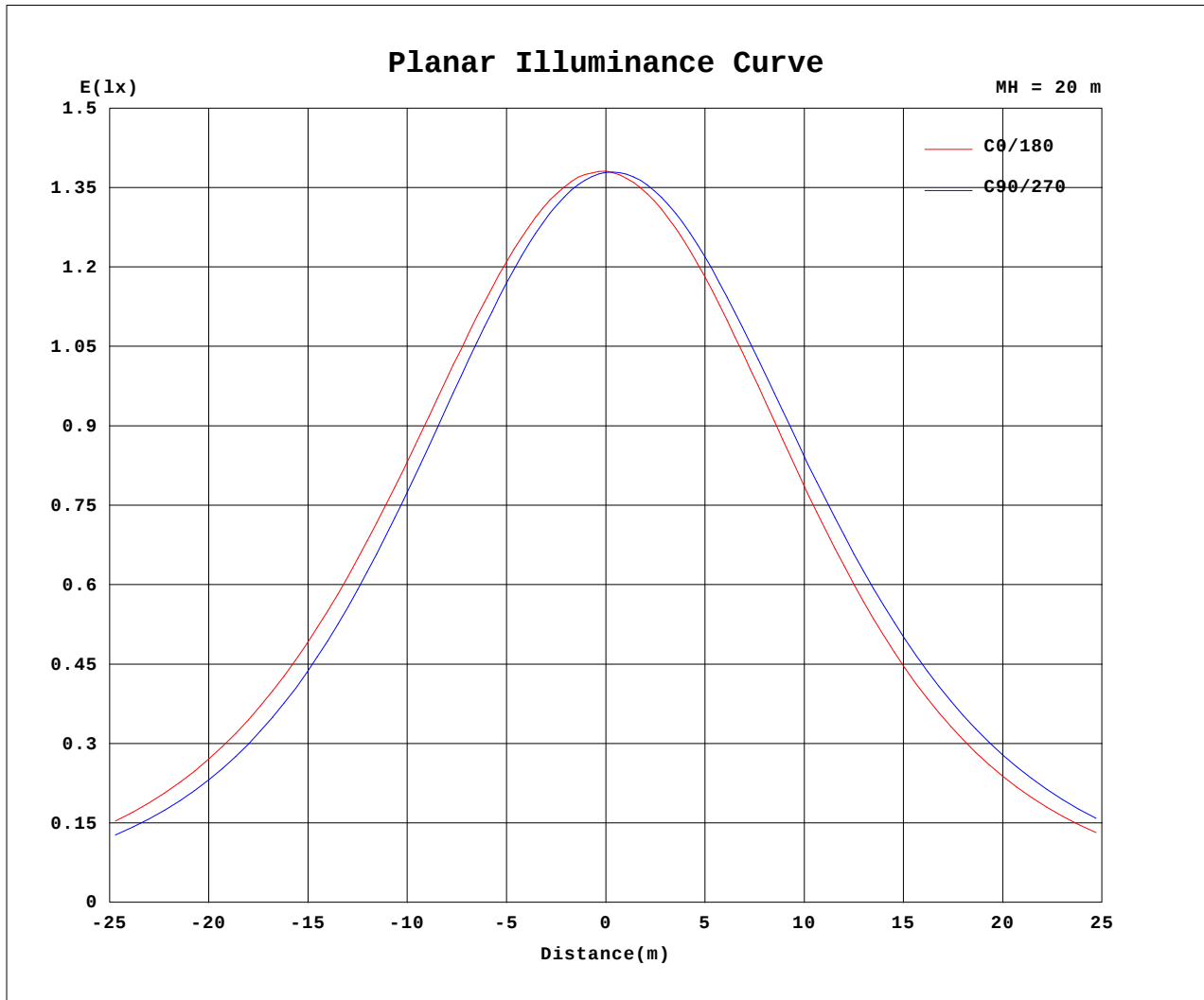
AvgL	cd/m2
L_0~180(65)av	8200
L_0~180(75)av	4860
L_0~180(85)av	650
L_90~270(65)av	8945
L_90~270(75)av	6588
L_90~270(85)av	3865
L_45(65)av	8730
L_45(75)av	5752
L_45(85)av	1635

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2021-12-23

g Range: 0 - 180DEG
g Interval: 1.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.00.426
Humidity:65.0%
Test Distance:8.000m [K=1.0750]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 30.00DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2021-12-23

g Range: 0 - 180DEG
 g Interval: 1.00DEG
 Test System: EVERFINE G0-2000B_V1 SYSTEM V2.00.426
 Humidity: 65.0%
 Test Distance: 8.000m [K=1.0750]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

NAME:ASD-LRK-GBR-6D15AC-WH-BZ 5000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD LIGHTING CORP	SUR.: 0.175*0.175	Shielding Angle:

Table--1
UNIT: cd

C(DEC) g (DEC)	0	30	60	90	120	150	180	210	240	270	300	330						
0	551	551	551	551	551	551	551	551	551	551	551	551						
5	550	548	545	544	543	544	545	548	550	552	553	552						
10	541	538	533	529	528	529	532	537	542	545	547	545						
15	526	520	513	508	505	507	512	519	526	531	534	531						
20	503	496	487	480	475	478	485	494	504	509	513	511						
25	475	466	453	445	439	442	451	462	474	482	486	483						
30	441	430	415	405	399	401	411	425	438	448	453	450						
35	400	388	371	360	352	355	366	381	398	408	414	410						
40	355	342	323	312	303	307	319	333	352	363	370	365						
45	306	294	273	262	254	258	270	283	303	316	323	317						
50	257	244	226	214	207	212	222	234	254	266	273	267						
55	208	197	180	171	164	168	175	187	206	217	224	219						
60	160	151	140	131	127	127	131	144	162	171	177	171						
65	115	109	103	97.0	93.2	91.0	93.3	104	122	130	134	127						
70	74.6	71.9	70.2	67.2	63.3	59.9	61.1	69.9	85.4	92.7	94.7	85.3						
75	41.0	39.9	41.8	42.0	37.9	33.8	34.5	40.9	53.8	60.3	59.9	49.2						
80	16.1	15.7	18.9	21.4	17.4	14.1	14.6	18.2	27.5	33.6	30.5	20.6						
85	1.78	1.53	4.08	7.00	3.55	1.43	1.62	3.38	8.57	13.2	9.21	3.90						
90	0.27	0.29	0.35	0.37	0.45	0.35	0.26	0.27	0.34	0.73	0.27	0.22						
95	0.43	0.49	0.51	0.54	0.58	0.67	0.66	0.69	0.35	0.34	0.32	0.33						
100	0.58	0.63	0.71	0.74	0.77	0.74	0.60	0.59	0.53	0.49	0.54	0.47						
105	0.83	0.86	0.93	0.98	1.01	0.96	0.83	0.78	0.72	0.69	0.66	0.70						
110	1.03	1.09	1.19	1.25	1.27	1.22	1.07	1.01	0.95	0.91	0.87	0.88						
115	1.28	1.35	1.46	1.53	1.55	1.50	1.33	1.27	1.20	1.15	1.11	1.10						
120	1.55	1.63	1.73	1.81	1.82	1.77	1.60	1.53	1.46	1.41	1.37	1.37						
125	1.81	1.89	2.00	2.09	2.10	2.05	1.86	1.79	1.72	1.68	1.63	1.63						
130	2.09	2.17	2.28	2.37	2.38	2.33	2.14	2.06	1.98	1.94	1.89	1.89						
135	2.37	2.43	2.55	2.64	2.65	2.60	2.41	2.33	2.25	2.22	2.16	2.15						
140	2.63	2.71	2.82	2.89	2.90	2.85	2.66	2.59	2.50	2.48	2.43	2.42						
145	2.90	2.95	3.06	3.13	3.13	3.10	2.92	2.84	2.75	2.73	2.68	2.67						
150	3.14	3.20	3.27	3.34	3.33	3.32	3.16	3.08	2.98	2.97	2.92	2.93						
155	3.38	3.42	3.47	3.53	3.52	3.53	3.39	3.30	3.22	3.19	3.16	3.18						
160	3.60	3.62	3.66	3.71	3.71	3.72	3.61	3.52	3.45	3.42	3.38	3.41						
165	3.79	3.80	3.85	3.89	3.89	3.89	3.81	3.74	3.67	3.65	3.62	3.62						
170	3.94	3.98	4.03	4.04	4.03	4.05	3.99	3.94	3.87	3.86	3.86	3.83						
175	4.09	4.13	4.16	4.15	4.15	4.15	4.12	4.10	4.06	4.03	4.06	4.01						
180	4.19	4.20	4.19	4.17	4.18	4.16	4.20	4.21	4.19	4.17	4.18	4.16						

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2021-12-23

g Range: 0 - 180DEG
g Interval: 1.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.00.426
Humidity:65.0%
Test Distance:8.000m [K=1.0750]
Remarks: