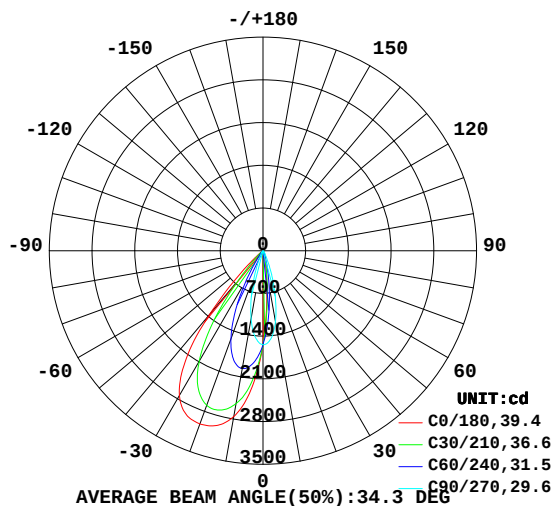


LUMINAIRE PHOTOMETRIC TEST REPORT

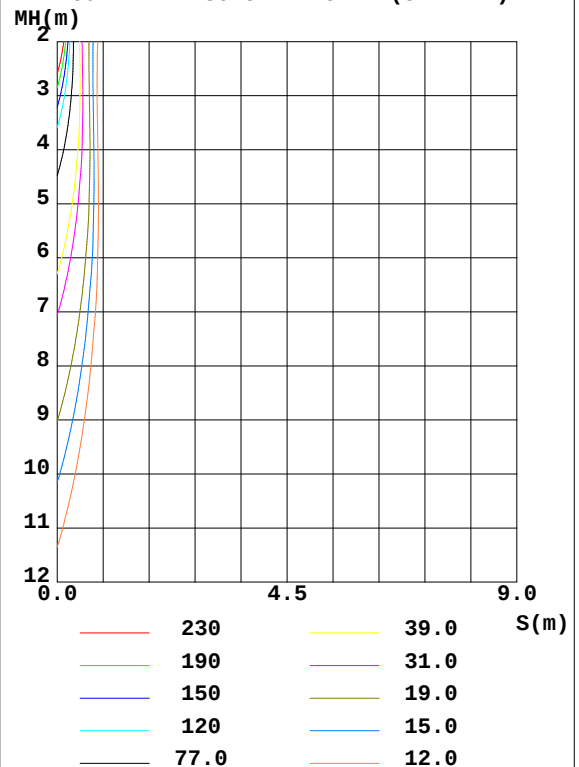
NAME: VM060-VF65RF01-15W	TYPE: indoor lights	WEIGHT: 1
SPEC.: 3000K-CRI90-38D	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 98.70 lm/W
MODEL	BXRE-30G1000-C-7X	Imax(cd)	3042	S/MH(C0/180)	1.28	
NOMINAL POWER(W)	15	LOR(%)	100.0	S/MH(C90/270)	0.48	
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	1330.3	η UP, DN(C0-180)	1.3, 43.3	
NOMINAL FLUX(lm)	1330.28	CIE CLASS	DIRECT	η UP, DN(C180-360)	1.2, 54.2	
LAMPS INSIDE	1	η up(%)	2.4	CIBSE SHR NOM	0.50	
TEST VOLTAGE(V)	230	η down(%)	97.6	CIBSE SHR MAX	0.65	

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT: lx)



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature: 28DEG
Operators: LGL
Test Date: 2021-08-11

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System: EVERFINE G0-2000B_V1 SYSTEM V2.0.401
Humidity: 65.0%
Test Distance: 5.190m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

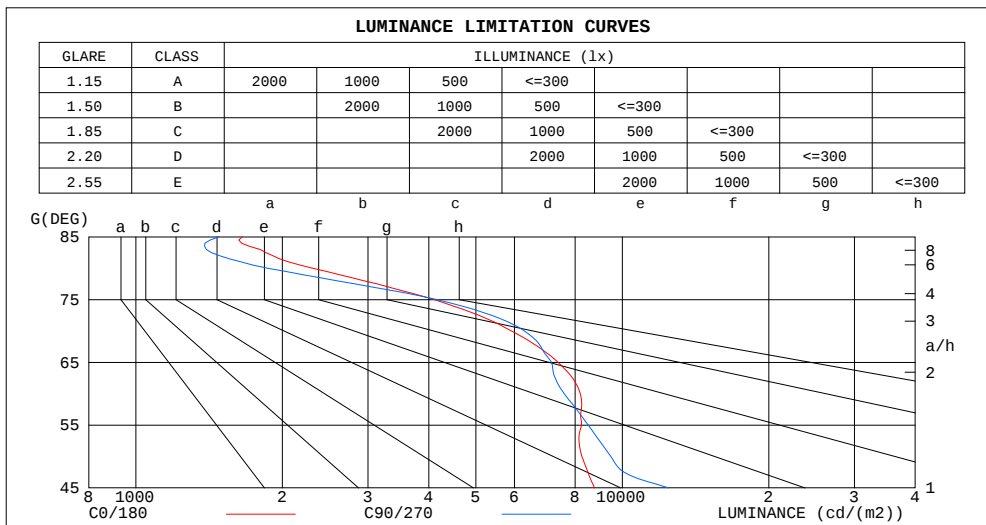
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	260.3	424.0	1180	2366	2757	2279	1131	380.1	0- 10	136.6	136.6	10.3,10.3
20	67.43	88.44	415.0	2342	3019	2198	363.1	81.50	10- 20	339.5	476.1	35.8,35.8
30	39.30	45.07	83.63	1449	2740	1269	77.33	43.64	20- 30	411.4	887.5	66.7,66.7
40	20.81	23.04	40.57	261.0	1359	193.4	36.78	21.21	30- 40	298.2	1186	89.1,89.1
50	14.93	15.35	17.15	48.58	97.88	42.23	15.77	14.72	40- 50	82.94	1269	95.4,95.4
60	11.52	11.29	10.70	12.70	19.29	11.59	9.847	10.85	50- 60	17.49	1286	96.7,96.7
70	5.690	5.954	6.062	5.392	4.573	4.824	5.550	5.614	60- 70	8.399	1295	97.3,97.3
80	1.126	1.089	0.9123	0.9260	0.6749	0.7197	0.8150	0.9592	70- 80	3.083	1298	97.5,97.5
90	0.3363	0.3286	0.2987	0.2749	0.2221	0.2255	0.2709	0.3154	80- 90	0.4572	1298	97.6,97.6
100	0.9983	0.4859	0.3522	0.3560	0.3034	0.2990	0.3459	0.5132	90-100	0.3754	1298	97.6,97.6
110	4.088	1.830	0.4821	0.4507	0.4200	0.4053	0.4913	2.099	100-110	0.8393	1299	97.7,97.7
120	9.370	5.484	1.137	0.5769	0.5651	0.5418	1.186	6.013	110-120	2.085	1301	97.8,97.8
130	15.33	10.64	3.603	0.9538	0.7896	0.9833	3.768	11.42	120-130	3.972	1305	98.1,98.1
140	18.75	15.62	7.880	2.837	1.858	2.958	8.139	16.52	130-140	5.859	1311	98.6,98.6
150	17.21	17.65	12.81	6.995	5.202	7.053	13.07	18.47	140-150	6.793	1318	99.1,99.1
160	13.77	16.91	16.56	12.42	10.53	12.28	16.73	17.52	150-160	6.214	1324	99.5,99.5
170	14.82	16.32	17.76	16.90	16.01	16.51	17.84	16.95	160-170	4.416	1329	99.9,99.9
180	17.84	17.72	17.96	18.30	17.89	17.71	17.98	18.29	170-180	1.648	1330	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:28DEG
Operators:LGL
Test Date:2021-08-11

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.401
Humidity:65.0%
Test Distance:5.190m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

NAME: VM060-VF65RF01-15W	TYPE: indoor lights	WEIGHT: 1
SPEC.: 3000K-CRI90-38D	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	1654	1482
80	2306	1865
75	4103	4153
70	5917	6291
65	7373	7152
60	8193	7596
55	8241	8510
50	8259	9469
45	8762	12454

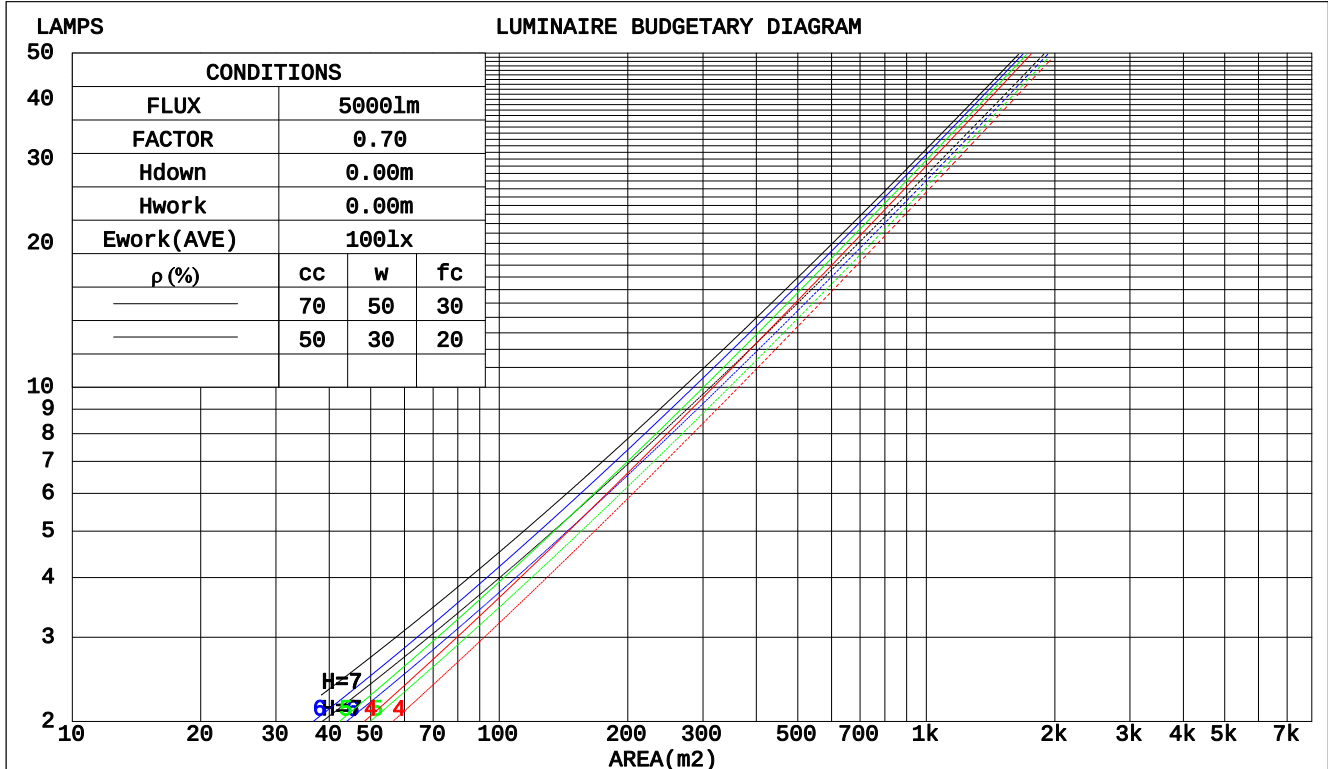
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: MEDIUM
 Temperature: 28DEG
 Operators: LGL
 Test Date: 2021-08-11

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE G0-2000B_V1 SYSTEM V2.0.401
 Humidity: 65.0%
 Test Distance: 5.190m [K=1.0000]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

NAME: VM060-VF65RF01-15W	TYPE:indoor lights	WEIGHT:1
SPEC.:3000K-CRI90-38D	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

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						Coefficients of Utilization(CU)									
0.0	1.18	1.18	1.18	1.15	1.15	1.15	1.10	1.10	1.10	1.05	1.05	1.05	.00	.00	.00	.98
1.0	1.10	1.07	1.05	1.07	1.05	1.03	1.03	1.01	.00	.99	.97	.96	.95	.94	.93	.91
2.0	1.02	.98	.94	1.00	.96	.93	.96	.93	.91	.93	.91	.88	.90	.88	.86	.84
3.0	.95	.90	.86	.93	.89	.85	.90	.86	.83	.87	.84	.81	.85	.82	.80	.78
4.0	.88	.83	.78	.87	.82	.78	.85	.80	.77	.82	.78	.75	.80	.77	.74	.73
5.0	.82	.76	.72	.81	.76	.72	.79	.74	.71	.77	.73	.70	.76	.72	.69	.68
6.0	.77	.71	.67	.76	.71	.66	.75	.69	.66	.73	.68	.65	.71	.67	.64	.63
7.0	.72	.66	.62	.72	.66	.62	.70	.65	.61	.69	.64	.61	.67	.63	.60	.59
8.0	.68	.62	.58	.67	.62	.58	.66	.61	.57	.65	.60	.57	.64	.60	.56	.55
9.0	.64	.58	.54	.64	.58	.54	.62	.57	.54	.61	.57	.53	.60	.56	.53	.52
10.0	.61	.55	.51	.60	.54	.51	.59	.54	.50	.58	.53	.50	.57	.53	.50	.49



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:28DEG
Operators:LGL
Test Date:2021-08-11

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 γ Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.401
Humidity:65.0%
Test Distance:5.190m [K=1.0000]
Remarks:

WEC AND CCEC

NAME: VM060-VF65RF01-15W	TYPE:indoor lights	WEIGHT:1
SPEC.:3000K-CRI90-38D	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

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	.183	.104	.033	.176	.100	.032	.162	.093	.030	.149	.086	.028	.137	.079	.026		
2.0	.176	.096	.030	.169	.093	.029	.157	.088	.027	.146	.082	.026	.136	.077	.024		
3.0	.167	.089	.027	.162	.087	.026	.152	.082	.025	.142	.078	.024	.133	.074	.023		
4.0	.159	.083	.024	.155	.081	.024	.146	.077	.023	.137	.074	.022	.130	.070	.021		
5.0	.152	.077	.022	.148	.076	.022	.140	.073	.021	.132	.070	.021	.126	.067	.020		
6.0	.145	.073	.021	.141	.071	.021	.134	.069	.020	.128	.066	.019	.121	.064	.019		
7.0	.138	.068	.019	.135	.067	.019	.129	.065	.019	.123	.063	.018	.117	.061	.018		
8.0	.132	.065	.018	.129	.064	.018	.124	.062	.018	.118	.060	.017	.113	.058	.017		
9.0	.127	.061	.017	.124	.060	.017	.119	.059	.017	.114	.057	.016	.110	.056	.016		
10.0	.122	.058	.016	.119	.058	.016	.114	.056	.016	.110	.055	.016	.106	.053	.015		

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	.209	.209	.209	.179	.179	.179	.122	.122	.122	.070	.070	.070	.022	.022	.022		
1.0	.190	.176	.163	.163	.151	.140	.111	.104	.097	.064	.060	.056	.021	.019	.018		
2.0	.175	.151	.131	.150	.130	.113	.103	.090	.079	.059	.052	.046	.019	.017	.015		
3.0	.164	.132	.108	.140	.114	.093	.096	.079	.065	.056	.046	.039	.018	.015	.013		
4.0	.154	.118	.091	.132	.102	.079	.091	.071	.055	.052	.042	.033	.017	.014	.011		
5.0	.145	.106	.078	.125	.092	.068	.086	.064	.048	.050	.038	.028	.016	.012	.009		
6.0	.138	.097	.068	.119	.084	.059	.082	.059	.042	.047	.035	.025	.015	.011	.008		
7.0	.132	.090	.061	.113	.078	.053	.078	.055	.037	.045	.032	.022	.015	.011	.007		
8.0	.126	.084	.055	.109	.073	.048	.075	.051	.034	.044	.030	.020	.014	.010	.007		
9.0	.121	.079	.050	.104	.068	.044	.072	.048	.031	.042	.028	.018	.014	.009	.006		
10.0	.117	.074	.046	.100	.064	.040	.070	.045	.029	.041	.027	.017	.013	.009	.006		

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:28DEG
Operators:LGL
Test Date:2021-08-11

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.401
Humidity:65.0%
Test Distance:5.190m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

NAME: VM060-vF65RF01-15W						TYPE:indoor lights			WEIGHT:1		
SPEC.:3000K-CRI90-38D						DIM.:			SERIAL No.:		
MFR.:						SUR.:			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	9.5	10.5	9.8	10.7	10.9	10.0	10.9	10.2	11.2	11.4	
3H	10.6	11.5	10.9	11.8	12.0	11.0	11.9	11.3	12.2	12.4	
4H	10.9	11.7	11.2	12.0	12.3	11.3	12.1	11.6	12.4	12.6	
6H	10.9	11.7	11.3	12.0	12.3	11.3	12.1	11.6	12.3	12.6	
8H	10.9	11.7	11.3	12.0	12.3	11.2	12.0	11.6	12.3	12.6	
12H	10.9	11.6	11.3	11.9	12.2	11.2	11.9	11.6	12.2	12.6	
4H 2H	10.1	10.9	10.4	11.2	11.4	10.5	11.3	10.8	11.6	11.8	
3H	11.3	12.0	11.7	12.3	12.7	11.7	12.4	12.0	12.7	13.0	
4H	11.6	12.3	12.0	12.6	13.0	11.9	12.6	12.3	12.9	13.3	
6H	11.7	12.3	12.1	12.6	13.0	12.0	12.5	12.4	12.9	13.3	
8H	11.7	12.2	12.1	12.6	13.0	11.9	12.4	12.4	12.8	13.3	
12H	11.7	12.1	12.1	12.5	13.0	11.9	12.4	12.3	12.8	13.2	
8H 4H	11.7	12.2	12.1	12.6	13.0	12.0	12.5	12.4	12.9	13.3	
6H	11.8	12.2	12.2	12.6	13.1	12.0	12.4	12.5	12.9	13.3	
8H	11.8	12.2	12.3	12.6	13.1	12.0	12.4	12.5	12.8	13.3	
12H	11.8	12.1	12.3	12.6	13.1	12.0	12.3	12.5	12.8	13.3	
12H 4H	11.6	12.1	12.1	12.5	13.0	11.9	12.4	12.4	12.8	13.2	
6H	11.7	12.1	12.2	12.6	13.1	12.0	12.3	12.5	12.8	13.3	
8H	11.7	12.1	12.3	12.5	13.1	11.9	12.3	12.5	12.8	13.3	
Variations with the observer position at spacings:											
S = 1.0H	+ 0.3 / - 0.4					+ 0.9 / - 0.7					
1.5H	+ 0.1 / - 0.3					+ 1.6 / - 0.4					
2.0H	+ 0.3 / - 0.6					+ 1.1 / - 0.6					

CIE Pub.117, 1330 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = 1.0$)

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:28DEG
Operators:LGL
Test Date:2021-08-11

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.401
Humidity:65.0%
Test Distance:5.190m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

NAME: VM060-VF65RF01-15W	TYPE:indoor lights	WEIGHT:1
SPEC.:3000K-CRI90-38D	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

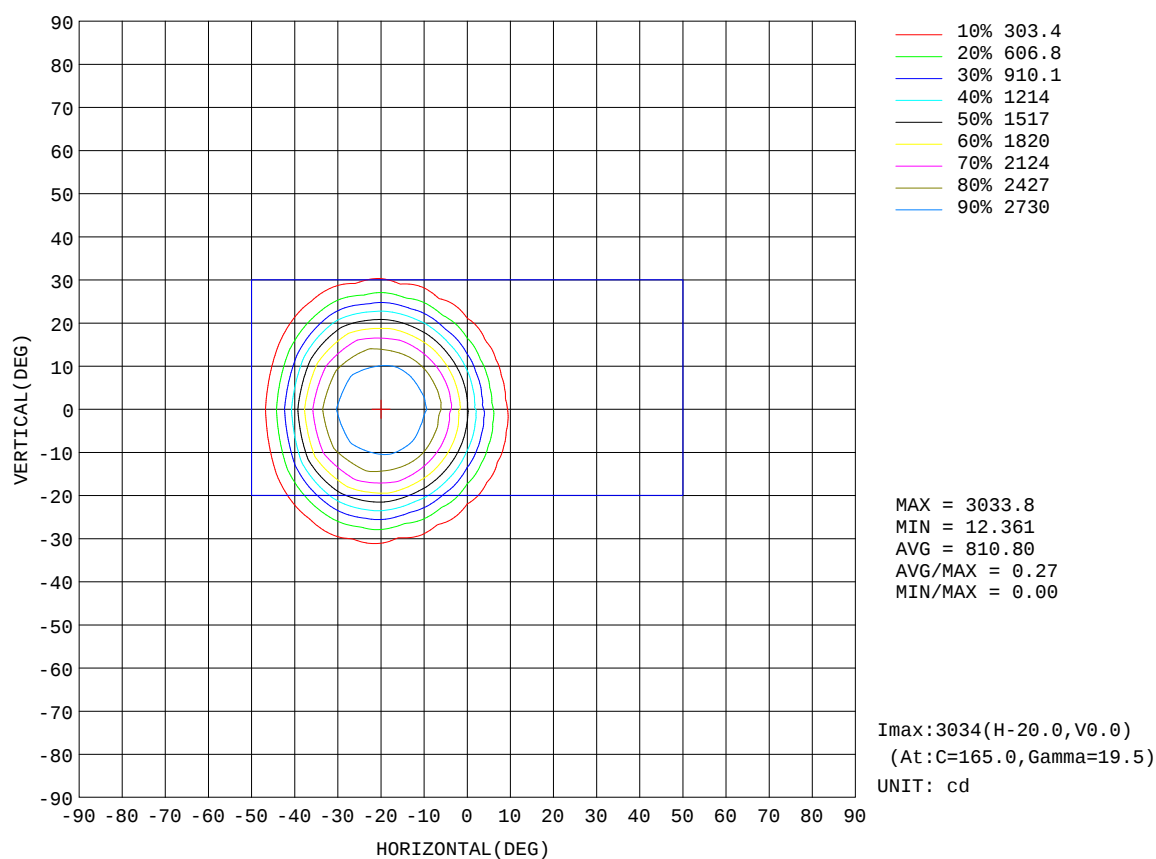
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) k(RI) × RCR = 5									
k = 0.60	85	78	74	84	78	74	83	77	74	70
0.80	92	86	82	92	86	82	90	85	82	78
1.00	97	91	88	96	91	87	94	90	86	82
1.25	101	96	92	100	95	92	98	94	91	86
1.50	104	99	96	103	98	95	100	97	94	89
2.00	107	103	100	106	102	99	103	99	97	91
2.50	109	105	102	107	104	101	104	101	99	92
3.00	111	107	104	109	105	103	105	102	100	93
4.00	113	110	108	110	108	106	106	104	103	95
5.00	114	112	110	112	110	108	107	106	104	96
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004										
Suspended										
SHRNOM = 1.25										

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:28DEG
Operators:LGL
Test Date:2021-08-11

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.401
Humidity:65.0%
Test Distance:5.190m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

NAME: VM060-VF65RF01-15W	TYPE: indoor lights	WEIGHT: 1
SPEC.: 3000K-CRI90-38D	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

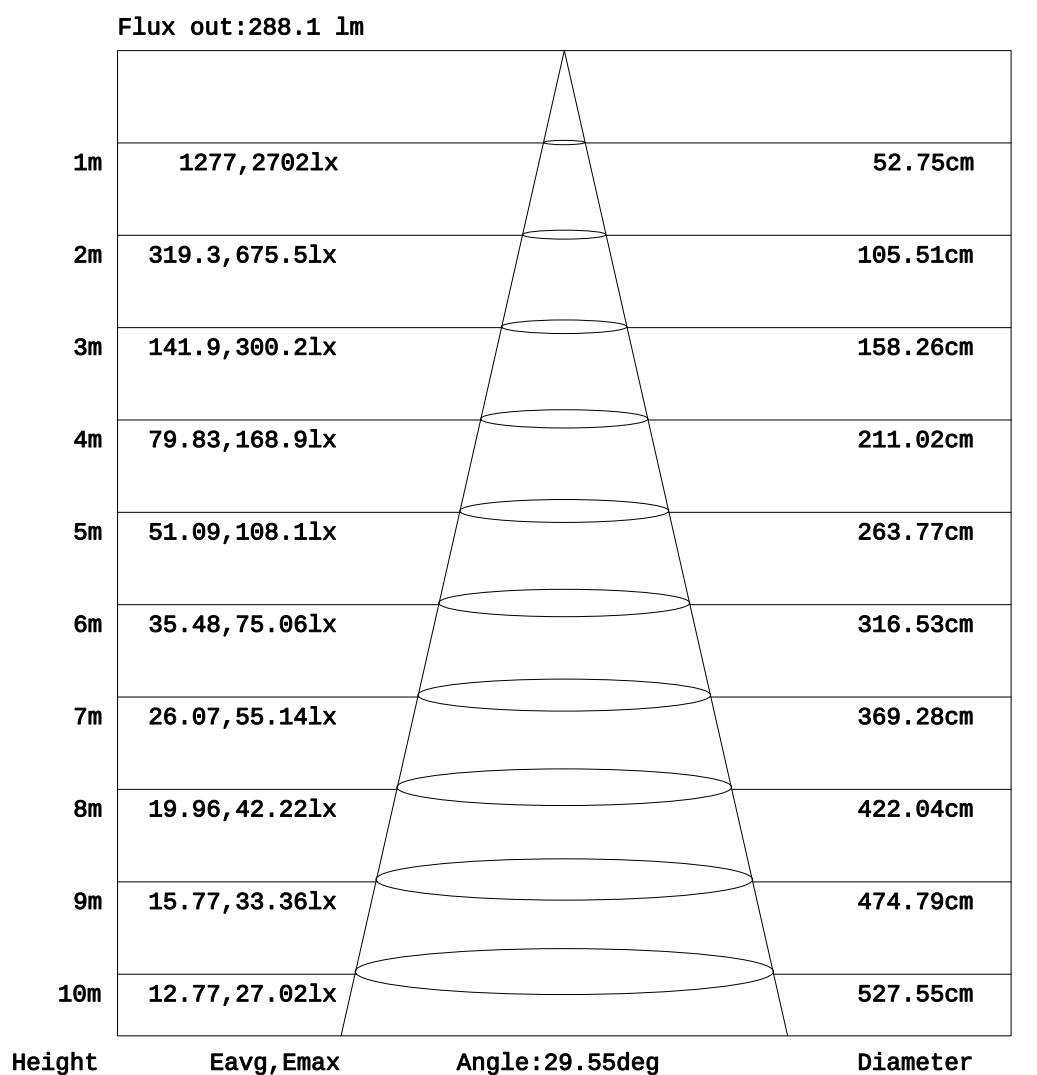


C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature: 28DEG
Operators: LGL
Test Date: 2021-08-11

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System: EVERFINE G0-2000B_V1 SYSTEM V2.0.401
Humidity: 65.0%
Test Distance: 5.190m [K=1.0000]
Remarks:

AAI Figure

NAME: VM060-VF65RF01-15W	TYPE:indoor lights	WEIGHT:1
SPEC.:3000K-CRI90-38D	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



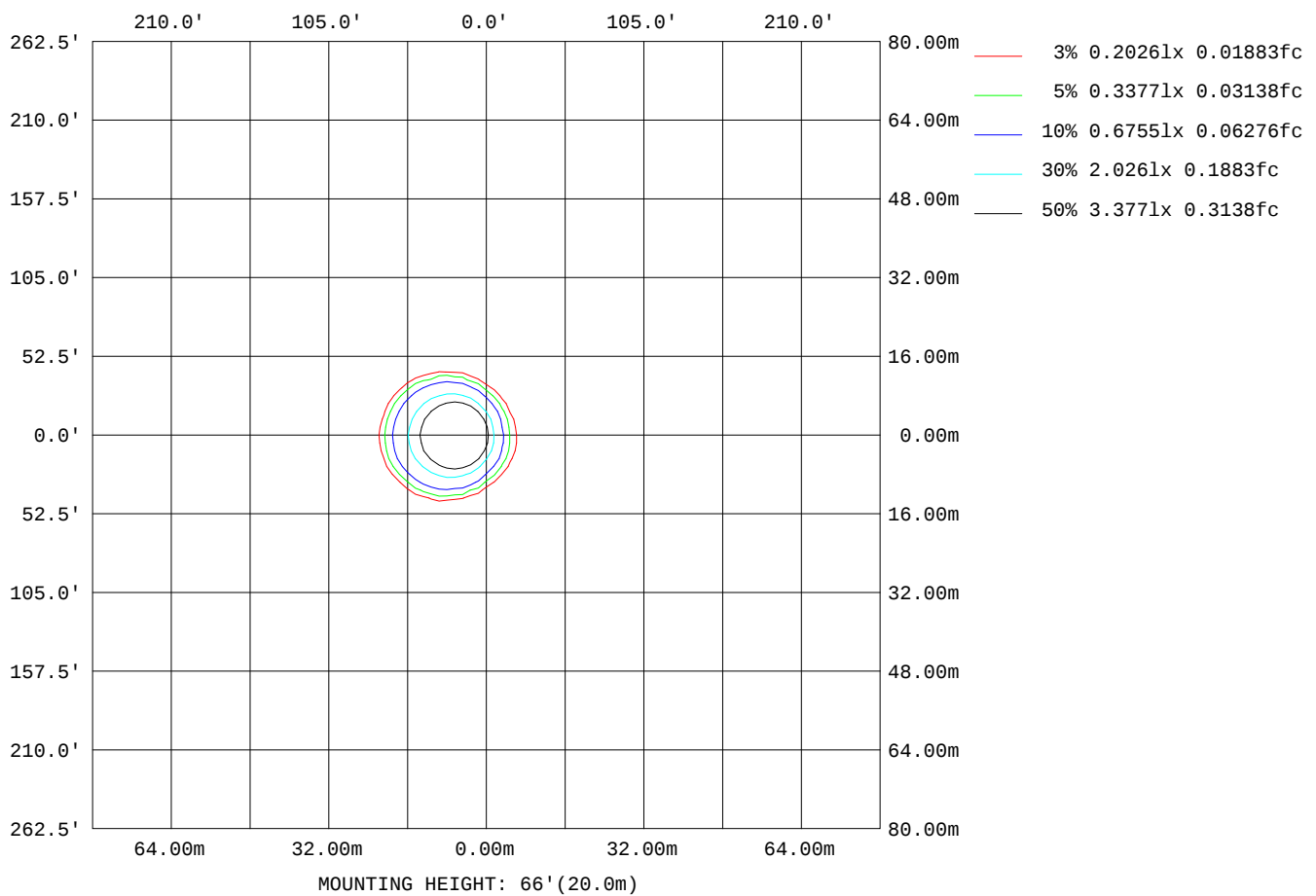
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: MEDIUM
 Temperature:28DEG
 Operators:LGL
 Test Date:2021-08-11

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.401
 Humidity:65.0%
 Test Distance:5.190m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

NAME: VM060-VF65RF01-15W	TYPE:indoor lights	WEIGHT:1
SPEC.:3000K-CRI90-38D	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:28DEG
Operators:LGL
Test Date:2021-08-11

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.401
Humidity:65.0%
Test Distance:5.190m [K=1.0000]
Remarks:

LED Avg.L Report

NAME: VM060-VF65RF01-15W	TYPE:indoor lights	WEIGHT:1
SPEC.:3000K-CRI90-38D	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

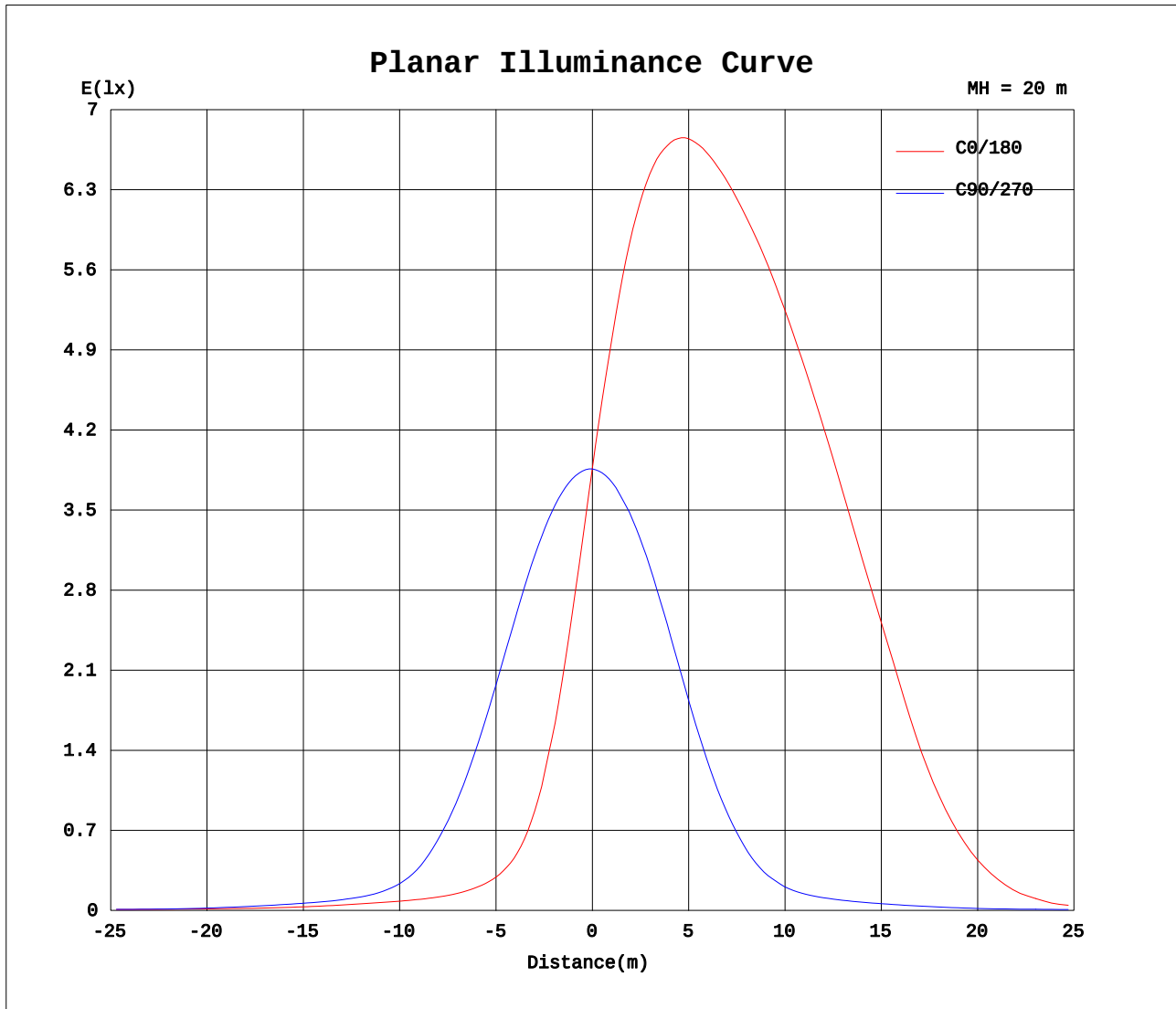
AvgL	cd/m2
L_0~180(65)av	7126
L_0~180(75)av	3744
L_0~180(85)av	1251
L_90~270(65)av	6865
L_90~270(75)av	3938
L_90~270(85)av	1341
L_45(65)av	6979
L_45(75)av	3884
L_45(85)av	1382

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:28DEG
Operators:LGL
Test Date:2021-08-11

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.401
Humidity:65.0%
Test Distance:5.190m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: MEDIUM
 Temperature: 28DEG
 Operators: LGL
 Test Date: 2021-08-11

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE G0-2000B_V1 SYSTEM V2.0.401
 Humidity: 65.0%
 Test Distance: 5.190m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

NAME: VM060-VF65RF01-15W	TYPE:indoor lights	WEIGHT:1
SPEC.:3000K-CRI90-38D	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

Table--1

UNIT: cd

C(DEG) γ (DEG)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270
0	1539	1539	1539	1539	1539	1539	1539	1539	1539	1539	1539	1539	1539	1539	1539	1539	1539	1539	1539
5	732	764	819	931	1065	1257	1454	1674	1872	2061	2186	2289	2291	2238	2168	2017	1848	1637	1427
10	260	282	326	424	581	839	1180	1604	1995	2366	2599	2773	2757	2657	2542	2279	1959	1535	1131
15	112	121	137	177	259	445	784	1336	1912	2457	2770	2994	2965	2854	2703	2333	1856	1236	722
20	67.4	69.2	75.6	88.4	118	201	415	916	1619	2342	2765	3041	3019	2893	2695	2198	1539	807	363
25	49.5	50.1	53.3	58.6	69.6	93.2	172	484	1136	2011	2597	2960	2967	2800	2505	1841	1050	396	150
30	39.3	39.7	42.0	45.1	51.1	61.3	83.6	188	600	1449	2195	2695	2740	2523	2092	1269	511	153	77.3
35	29.2	29.6	31.2	33.7	38.3	45.5	56.1	83.6	218	766	1527	2154	2228	1952	1418	607	181	73.5	53.5
40	20.8	20.9	21.7	23.0	25.9	31.7	40.6	54.0	84.6	261	702	1262	1359	1085	614	193	72.5	49.6	36.8
45	17.4	17.4	17.8	18.0	18.6	19.9	24.8	36.9	51.9	88.8	209	440	498	363	178	69.8	47.3	31.8	21.2
50	14.9	14.9	15.2	15.4	15.8	16.4	17.1	19.5	30.5	48.6	64.3	91.3	97.9	76.9	57.7	42.2	26.9	17.1	15.8
55	13.3	13.1	13.2	13.0	13.1	13.3	13.8	14.6	15.8	21.3	31.9	42.1	42.4	36.7	29.2	18.5	15.0	13.3	12.7
60	11.5	11.5	11.5	11.3	11.2	10.8	10.7	11.1	11.4	12.7	14.9	18.9	19.3	16.7	14.2	11.6	10.7	10.0	9.85
65	8.76	8.78	8.95	9.09	9.04	8.79	8.52	8.21	7.98	8.22	8.10	8.65	8.26	7.69	7.74	7.39	7.44	7.41	7.88
70	5.69	5.71	5.77	5.95	6.06	6.16	6.06	5.99	5.58	5.39	4.92	4.87	4.57	4.41	4.68	4.82	5.13	5.30	5.55
75	2.99	3.02	2.96	2.97	2.93	3.03	3.03	3.19	3.06	3.08	2.77	2.71	2.49	2.37	2.58	2.61	2.79	2.67	2.73
80	1.13	1.16	1.11	1.09	0.99	0.98	0.91	0.95	0.90	0.93	0.81	0.80	0.67	0.64	0.74	0.72	0.79	0.76	0.81
85	0.41	0.44	0.45	0.43	0.41	0.38	0.36	0.32	0.32	0.28	0.28	0.26	0.21	0.23	0.23	0.25	0.25	0.29	0.30
90	0.34	0.34	0.34	0.33	0.32	0.31	0.30	0.29	0.27	0.27	0.25	0.26	0.22	0.21	0.23	0.23	0.25	0.24	0.27
95	0.46	0.44	0.39	0.36	0.34	0.34	0.31	0.32	0.30	0.31	0.28	0.30	0.26	0.24	0.27	0.26	0.29	0.27	0.30
100	1.00	0.87	0.68	0.49	0.39	0.38	0.35	0.36	0.34	0.36	0.33	0.35	0.30	0.29	0.32	0.30	0.32	0.31	0.35
105	2.19	1.91	1.47	0.89	0.56	0.45	0.41	0.41	0.38	0.40	0.38	0.40	0.36	0.34	0.36	0.34	0.37	0.36	0.40
110	4.09	3.64	2.91	1.83	1.06	0.62	0.48	0.47	0.43	0.45	0.42	0.45	0.42	0.40	0.42	0.41	0.43	0.42	0.49
115	6.55	5.93	4.97	3.40	2.10	1.09	0.66	0.54	0.49	0.51	0.49	0.51	0.49	0.47	0.49	0.47	0.50	0.51	0.68
120	9.37	8.64	7.49	5.48	3.70	2.08	1.14	0.73	0.58	0.58	0.54	0.58	0.57	0.54	0.56	0.54	0.60	0.73	1.19
125	12.4	11.6	10.3	7.96	5.80	3.62	2.11	1.18	0.80	0.69	0.63	0.64	0.65	0.62	0.66	0.68	0.83	1.25	2.21
130	15.3	14.4	13.1	10.6	8.23	5.62	3.60	2.10	1.32	0.95	0.80	0.79	0.79	0.78	0.85	0.98	1.38	2.27	3.77
135	17.6	16.8	15.7	13.3	10.8	7.95	5.58	3.63	2.36	1.60	1.24	1.11	1.11	1.14	1.31	1.69	2.44	3.81	5.79
140	18.7	18.1	17.5	15.6	13.4	10.5	7.88	5.61	3.95	2.84	2.20	1.87	1.86	1.96	2.28	2.96	4.10	5.83	8.14
145	18.5	18.1	18.2	17.1	15.5	12.9	10.4	7.95	6.04	4.68	3.77	3.31	3.23	3.37	3.89	4.77	6.20	8.18	10.6
150	17.2	17.1	17.9	17.6	17.0	15.1	12.8	10.5	8.48	7.00	5.93	5.38	5.20	5.36	6.02	7.05	8.64	10.7	13.1
155	15.4	15.6	16.9	17.4	17.6	16.6	15.0	13.0	11.1	9.65	8.52	7.95	7.69	7.84	8.59	9.62	11.2	13.1	15.2
160	13.8	14.3	15.7	16.9	17.7	17.4	16.6	15.2	13.6	12.4	11.3	10.9	10.5	10.6	11.4	12.3	13.7	15.2	16.7
165	13.8	14.3	15.4	16.3	17.5	17.8	17.5	16.8	15.8	15.0	14.1	13.8	13.5	13.5	14.1	14.7	15.8	16.7	17.6
170	14.8	15.0	15.9	16.3	17.2	17.6	17.8	17.7	17.1	16.9	16.4	16.4	16.0	15.9	16.3	16.5	17.1	17.5	17.8
175	16.4	16.5	17.0	17.1	17.5	17.6	17.8	18.0	17.9	18.1	17.8	18.0	17.7	17.4	17.8	17.6	17.9	17.8	17.9
180	17.8	17.7	17.9	17.7	17.9	17.9	18.0	18.1	18.0	18.3	18.1	18.4	17.9	17.7	17.9	17.7	17.9	17.8	18.0

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:28DEG
Operators:LGL
Test Date:2021-08-11

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.401
Humidity:65.0%
Test Distance:5.190m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

NAME: VM060-VF65RF01-15W	TYPE:indoor lights	WEIGHT:1
SPEC.:3000K-CRI90-38D	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

Table--2

UNIT: cd

C (DEG) γ (DEG)	285	300	315	330	345														
0	1539	1539	1539	1539	1539														
5	1212	1038	889	799	734														
10	768	532	380	304	262														
15	382	228	156	128	113														
20	163	103	81.5	72.3	68.8														
25	82.0	64.0	56.7	51.9	50.4														
30	57.4	48.3	43.6	40.8	39.9														
35	41.8	35.2	31.7	29.8	29.2														
40	27.5	23.1	21.2	20.6	20.6														
45	17.8	17.3	17.3	17.2	17.5														
50	15.1	14.8	14.7	14.7	14.9														
55	12.3	12.2	12.5	12.7	13.2														
60	9.99	10.5	10.8	11.1	11.4														
65	8.12	8.45	8.64	8.62	8.70														
70	5.56	5.63	5.61	5.56	5.59														
75	2.62	2.71	2.71	2.87	2.90														
80	0.82	0.91	0.96	1.07	1.08														
85	0.34	0.35	0.40	0.41	0.43														
90	0.28	0.29	0.32	0.33	0.34														
95	0.30	0.33	0.35	0.42	0.49														
100	0.35	0.40	0.51	0.74	1.03														
105	0.43	0.59	1.02	1.58	2.21														
110	0.65	1.12	2.10	3.09	4.05														
115	1.20	2.22	3.78	5.18	6.49														
120	2.29	3.89	6.01	7.76	9.31														
125	3.92	6.04	8.62	10.6	12.4														
130	6.02	8.53	11.4	13.6	15.4														
135	8.44	11.2	14.2	16.2	17.8														
140	11.0	13.8	16.5	17.9	19.1														
145	13.5	16.0	18.0	18.6	19.0														
150	15.6	17.4	18.5	18.2	17.9														
155	17.1	18.0	18.2	17.1	16.3														
160	17.8	18.0	17.5	16.0	15.0														
165	18.0	17.6	16.9	15.7	15.0														
170	17.9	17.4	17.0	16.2	15.8														
175	17.9	17.7	17.8	17.3	17.3														
180	18.1	18.0	18.3	18.1	18.4														

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:28DEG
Operators:LGL
Test Date:2021-08-11

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.401
Humidity:65.0%
Test Distance:5.190m [K=1.0000]
Remarks: