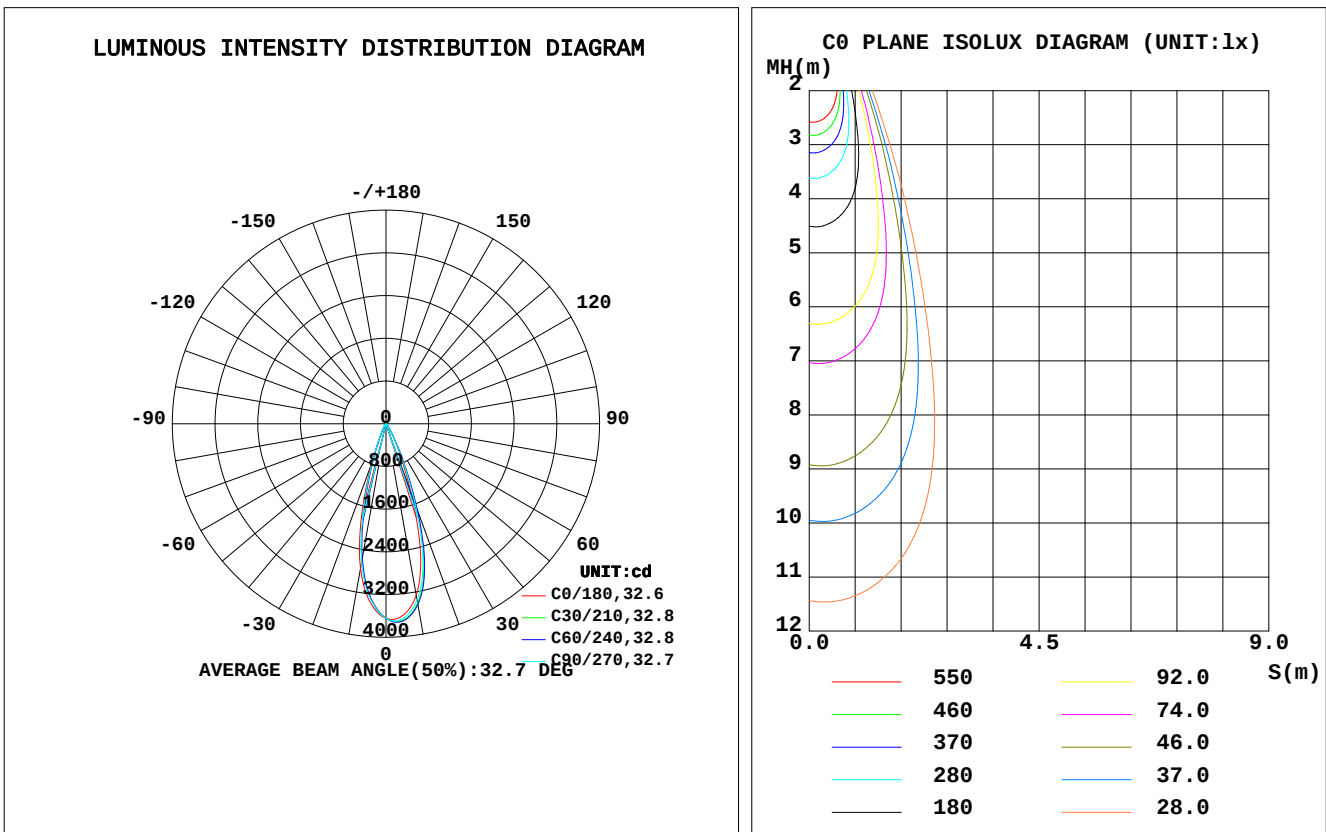


LUMINAIRE PHOTOMETRIC TEST REPORT

NAME: VM060-VF63RA01-15W	TYPE: indoor lights	WEIGHT: 1
SPEC.: 3000K-CRI90-24D	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 94.05 lm/W
MODEL	BXRE-30G1000-C-7X	Imax(cd)	3729	S/MH(C0/180)	0.47	
NOMINAL POWER(W)	15	LOR(%)	100.0	S/MH(C90/270)	0.45	
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	1265.6	η UP, DN(C0-180)	1.1, 56.9	
NOMINAL FLUX(lm)	1265.57	CIE CLASS	DIRECT	η UP, DN(C180-360)	1.3, 40.7	
LAMPS INSIDE	1	η up(%)	2.4	CIBSE SHR NOM	0.50	
TEST VOLTAGE(V)	230	η down(%)	97.6	CIBSE SHR MAX	0.50	



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: MEDIUM
 Temperature: 28DEG
 Operators: LGL
 Test Date: 2021-08-10

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:

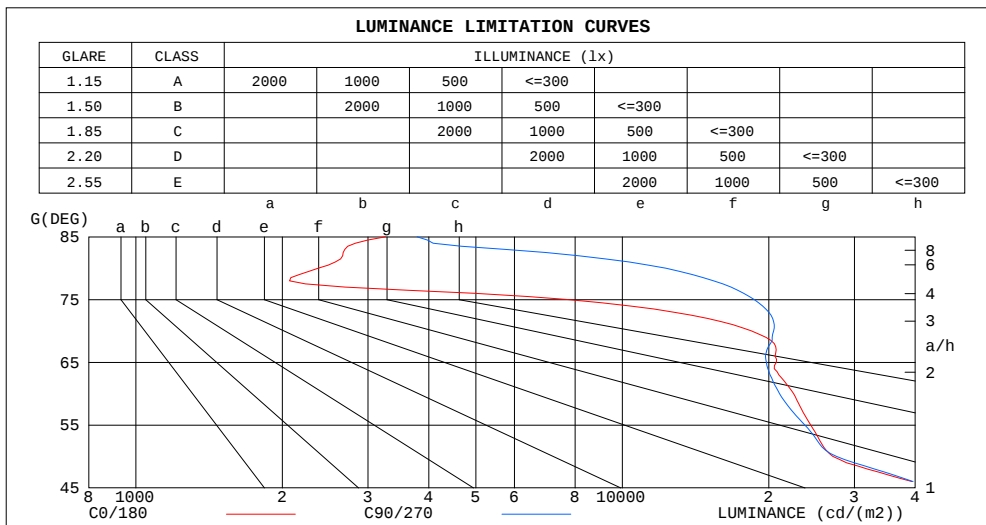
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	3262	3461	3349	3097	2751	2549	2625	2879	0- 10	317.1	317.1	25.1, 25.1
20	1369	1747	1603	1205	779.8	634.9	719.6	942.5	10- 20	567.4	884.5	69.9, 69.9
30	242.9	294.0	236.8	157.3	107.0	99.36	118.2	165.1	20- 30	229.6	1114	88, 88
40	68.64	71.29	61.12	50.42	44.25	42.04	46.77	54.91	30- 40	58.65	1173	92.7, 92.7
50	24.01	26.24	24.55	20.87	19.91	19.91	21.27	21.74	40- 50	27.42	1200	94.8, 94.8
60	15.51	15.64	14.58	13.45	12.93	13.08	13.78	14.50	50- 60	15.95	1216	96.1, 96.1
70	8.689	10.37	9.694	9.471	8.006	9.462	10.03	10.58	60- 70	11.64	1228	97, 97
80	0.5674	3.295	2.956	2.892	0.9535	2.542	3.003	2.922	70- 80	6.330	1234	97.5, 97.5
90	0.3629	0.3923	0.3470	0.4161	0.3531	0.4131	0.3382	0.3876	80- 90	0.8728	1235	97.6, 97.6
100	0.3957	0.4087	0.4107	0.4186	0.4466	0.4283	0.4399	0.3873	90-100	0.4170	1235	97.6, 97.6
110	0.5541	0.5323	0.5345	0.5802	0.6601	0.6577	0.6237	0.5443	100-110	0.5148	1236	97.7, 97.7
120	1.008	0.9016	0.9824	1.179	1.574	1.807	1.609	1.258	110-120	0.8286	1237	97.7, 97.7
130	3.281	2.828	3.085	3.725	4.913	5.545	5.140	4.235	120-130	2.175	1239	97.9, 97.9
140	8.294	7.576	7.972	8.980	10.62	11.45	10.95	9.761	130-140	5.059	1244	98.3, 98.3
150	14.34	13.62	14.02	14.95	16.31	16.81	16.51	15.52	140-150	7.742	1252	98.9, 98.9
160	17.30	17.42	17.63	17.88	17.71	17.67	17.67	17.49	150-160	7.778	1259	99.5, 99.5
170	15.51	15.70	15.81	15.33	14.99	14.38	14.24	14.46	160-170	4.743	1264	99.9, 99.9
180	13.92	13.94	13.43	13.64	13.93	13.93	13.43	13.63	170-180	1.357	1266	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: 2021-08-10

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:

LUMINANCE LIMITATION CURVES

NAME: VM060-VF63RA01-15W	TYPE:indoor lights	WEIGHT:1
SPEC.:3000K-CRI90-24D	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	3259	3785
80	2370	12286
75	7737	18675
70	18428	20460
65	20731	19774
60	22497	21051
55	24403	23730
50	27091	27572
45	43564	42723

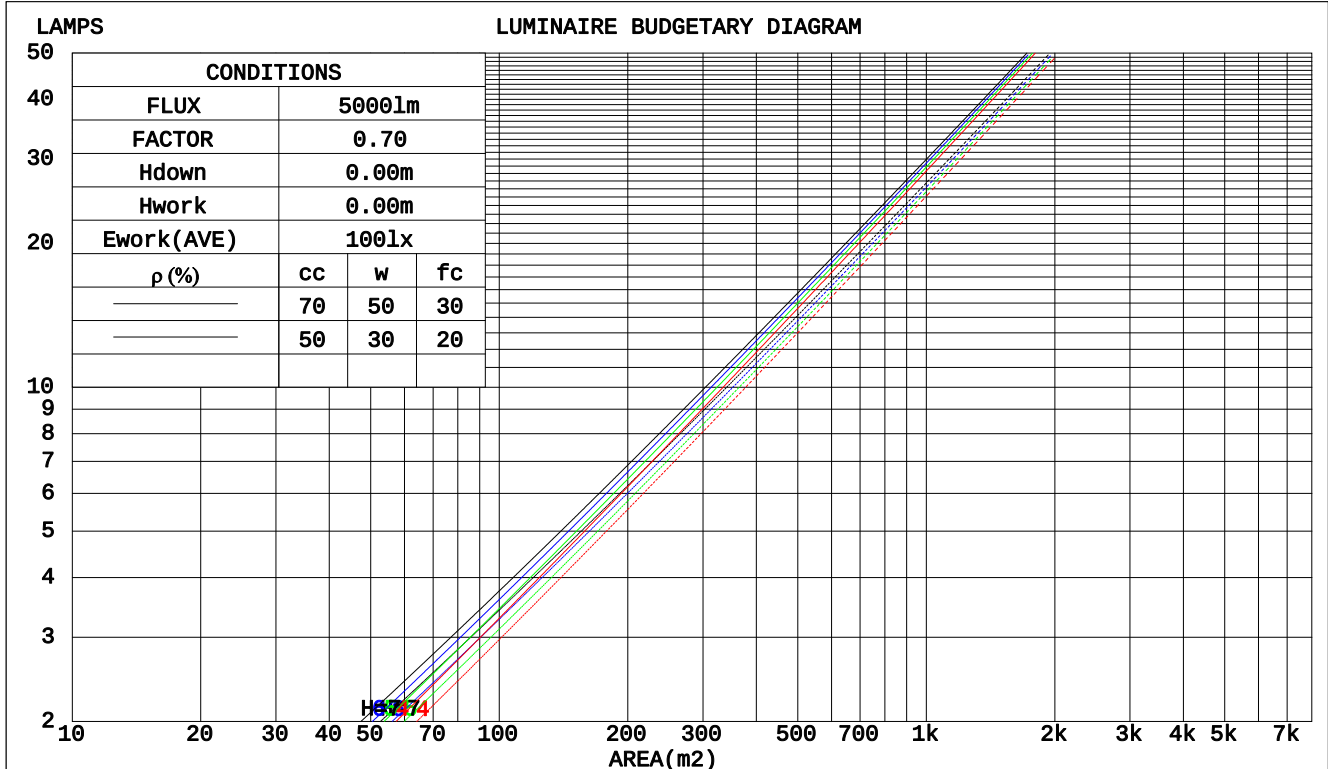
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: MEDIUM
 Temperature:28DEG
 Operators:LGL
 Test Date:2021-08-10

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-VF63RA01-15W	TYPE:indoor lights	WEIGHT:1
SPEC.:3000K-CRI90-24D	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	1.11	1.09	1.07	1.09	1.07	1.05	1.05	1.03	1.02	1.00	.99	.98	.97	.96	.95	.93
2.0	1.05	1.02	.99	1.03	1.00	.98	.00	.97	.95	.96	.94	.93	.93	.92	.90	.89
3.0	.00	.96	.92	.98	.94	.91	.95	.92	.90	.93	.90	.88	.90	.88	.86	.85
4.0	.95	.90	.87	.94	.90	.86	.91	.88	.85	.89	.86	.84	.87	.85	.83	.81
5.0	.91	.86	.83	.90	.85	.82	.88	.84	.81	.86	.83	.80	.84	.82	.79	.78
6.0	.87	.82	.79	.86	.82	.78	.84	.81	.78	.83	.80	.77	.82	.79	.76	.75
7.0	.83	.79	.75	.83	.78	.75	.81	.77	.75	.80	.77	.74	.79	.76	.74	.72
8.0	.80	.76	.72	.80	.75	.72	.79	.75	.72	.77	.74	.71	.76	.73	.71	.70
9.0	.77	.73	.70	.77	.73	.70	.76	.72	.69	.75	.71	.69	.74	.71	.69	.67
10.0	.75	.70	.67	.74	.70	.67	.73	.70	.67	.73	.69	.67	.72	.69	.66	.65



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:28DEG
Operators:LGL
Test Date:2021-08-10

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-VF63RA01-15W	TYPE:indoor lights	WEIGHT:1
SPEC.:3000K-CRI90-24D	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	.156	.089	.028	.148	.085	.027	.134	.077	.025	.122	.070	.023	.110	.064	.021		
2.0	.145	.080	.024	.139	.077	.024	.128	.071	.022	.117	.066	.021	.107	.060	.019		
3.0	.136	.072	.022	.131	.070	.021	.121	.065	.020	.112	.061	.019	.103	.057	.018		
4.0	.127	.066	.019	.123	.064	.019	.114	.061	.018	.107	.057	.017	.099	.054	.016		
5.0	.120	.061	.018	.116	.060	.017	.109	.057	.017	.102	.054	.016	.095	.051	.015		
6.0	.114	.057	.016	.110	.056	.016	.104	.053	.015	.098	.051	.015	.092	.048	.014		
7.0	.108	.053	.015	.105	.052	.015	.099	.050	.014	.094	.048	.014	.089	.046	.014		
8.0	.103	.050	.014	.100	.049	.014	.095	.047	.014	.090	.046	.013	.086	.044	.013		
9.0	.098	.047	.013	.096	.047	.013	.091	.045	.013	.087	.043	.012	.083	.042	.012		
10.0	.094	.045	.012	.092	.044	.012	.088	.043	.012	.084	.042	.012	.080	.040	.012		

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	.188	.176	.165	.161	.151	.142	.110	.104	.098	.063	.060	.057	.020	.019	.018	
2.0	.171	.151	.134	.147	.130	.116	.101	.090	.081	.058	.052	.048	.019	.017	.015	
3.0	.157	.132	.112	.135	.114	.097	.093	.079	.068	.054	.046	.040	.017	.015	.013	
4.0	.146	.117	.095	.125	.101	.083	.086	.071	.058	.050	.041	.035	.016	.013	.011	
5.0	.136	.105	.083	.117	.091	.072	.080	.064	.051	.047	.037	.030	.015	.012	.010	
6.0	.127	.095	.073	.110	.083	.063	.076	.058	.045	.044	.034	.027	.014	.011	.009	
7.0	.120	.088	.065	.103	.076	.056	.071	.053	.040	.041	.031	.024	.013	.010	.008	
8.0	.114	.081	.058	.098	.070	.051	.068	.049	.036	.039	.029	.022	.013	.010	.007	
9.0	.108	.075	.053	.093	.066	.046	.065	.046	.033	.038	.027	.020	.012	.009	.007	
10.0	.104	.071	.049	.089	.062	.043	.062	.043	.030	.036	.026	.018	.012	.008	.006	

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:28DEG
Operators:LGL
Test Date:2021-08-10

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-VF63RA01-15W						TYPE:indoor lights			WEIGHT:1		
SPEC.:3000K-CRI90-24D						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	17.4	18.1	17.6	18.3	18.5	17.2	17.9	17.4	18.1	18.3	
3H	18.0	18.7	18.3	18.9	19.1	17.8	18.5	18.1	18.7	19.0	
4H	18.1	18.7	18.4	19.0	19.2	18.2	18.8	18.5	19.1	19.3	
6H	18.0	18.6	18.3	18.9	19.2	18.3	19.0	18.7	19.2	19.5	
8H	18.0	18.5	18.3	18.8	19.1	18.3	18.9	18.7	19.2	19.5	
12H	17.9	18.5	18.3	18.8	19.1	18.3	18.9	18.6	19.2	19.5	
4H 2H	17.5	18.2	17.8	18.4	18.7	17.3	18.0	17.6	18.2	18.5	
3H	18.4	19.0	18.7	19.3	19.6	18.3	18.8	18.6	19.1	19.5	
4H	18.6	19.1	18.9	19.4	19.8	18.7	19.3	19.1	19.6	19.9	
6H	18.5	19.0	18.9	19.3	19.7	19.0	19.4	19.4	19.8	20.2	
8H	18.4	18.9	18.9	19.3	19.7	19.0	19.4	19.4	19.8	20.2	
12H	18.4	18.8	18.8	19.2	19.6	18.9	19.3	19.4	19.7	20.2	
8H 4H	18.7	19.1	19.1	19.5	19.9	18.9	19.3	19.3	19.7	20.1	
6H	18.7	19.0	19.1	19.5	19.9	19.2	19.5	19.6	20.0	20.4	
8H	18.6	18.9	19.1	19.4	19.9	19.2	19.5	19.7	20.0	20.4	
12H	18.6	18.8	19.1	19.3	19.8	19.1	19.4	19.6	19.9	20.4	
12H 4H	18.7	19.1	19.1	19.5	19.9	18.8	19.2	19.3	19.6	20.1	
6H	18.6	19.0	19.1	19.4	19.9	19.1	19.4	19.6	19.9	20.4	
8H	18.6	18.9	19.1	19.3	19.9	19.1	19.4	19.7	19.9	20.4	
Variations with the observer position at spacings:											
S = 1.0H	+ 1.0 / - 1.3					+ 0.7 / - 0.9					
1.5H	+ 1.7 / - 1.3					+ 1.1 / - 1.0					
2.0H	+ 1.9 / - 0.8					+ 1.5 / - 0.8					

CIE Pub.117, 1266 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = 0.8$)

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:28DEG
Operators:LGL
Test Date:2021-08-10

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-VF63RA01-15W	TYPE:indoor lights	WEIGHT:1
SPEC.:3000K-CRI90-24D	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

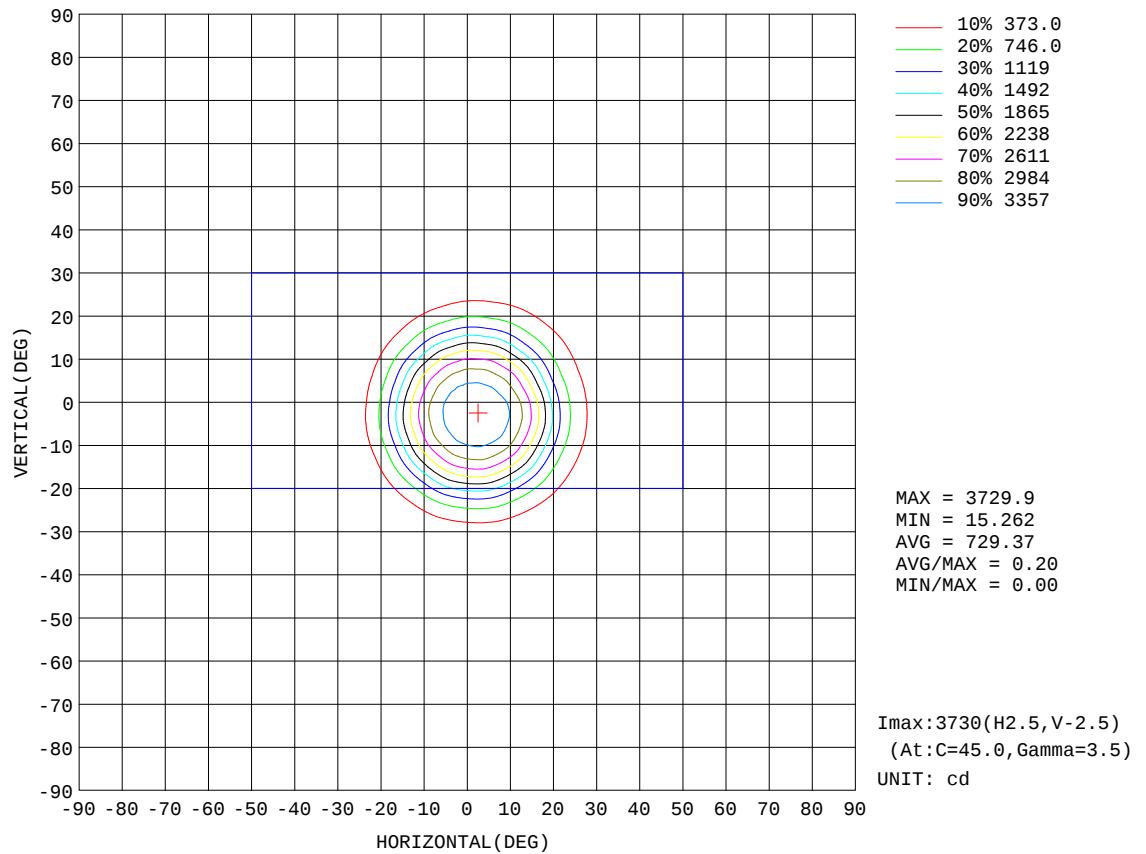
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	87	81	77	86	81	77	86	80	77	73
0.80	94	89	85	94	88	85	92	87	84	80
1.00	99	93	89	98	92	89	96	92	88	84
1.25	102	97	94	101	97	93	99	95	92	88
1.50	105	100	97	104	99	96	101	98	95	90
2.00	108	103	100	106	102	99	103	100	98	92
2.50	109	106	103	108	104	102	104	101	99	93
3.00	111	108	105	109	106	104	105	103	101	94
4.00	113	110	108	111	108	106	107	105	103	96
5.00	114	112	110	112	110	108	108	106	105	97
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:2021-08-10

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-VF63RA01-15W	TYPE: indoor lights	WEIGHT: 1
SPEC.: 3000K-CRI90-24D	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

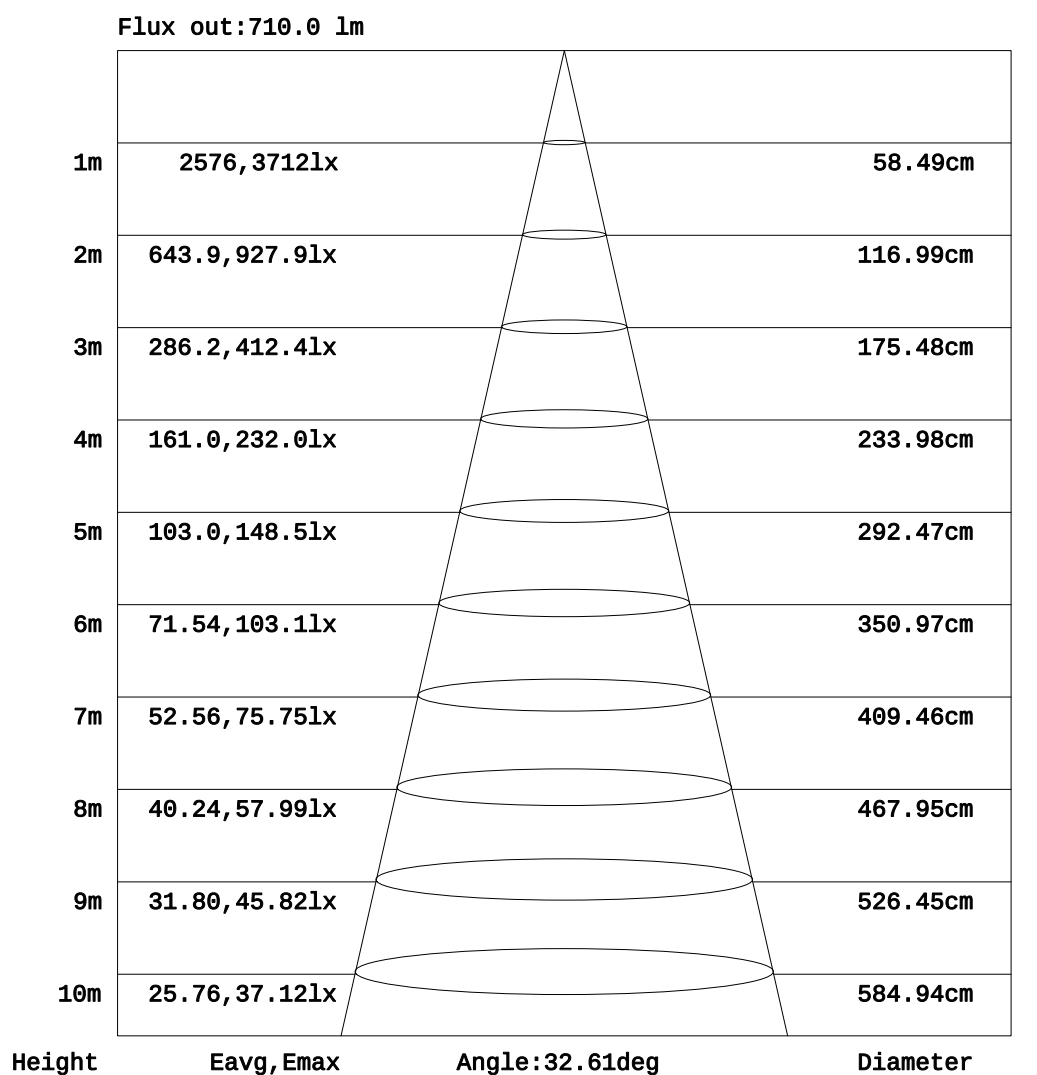


C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: MEDIUM
 Temperature: 28DEG
 Operators: LGL
 Test Date: 2021-08-10

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-VF63RA01-15W	TYPE:indoor lights	WEIGHT:1
SPEC.:3000K-CRI90-24D	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



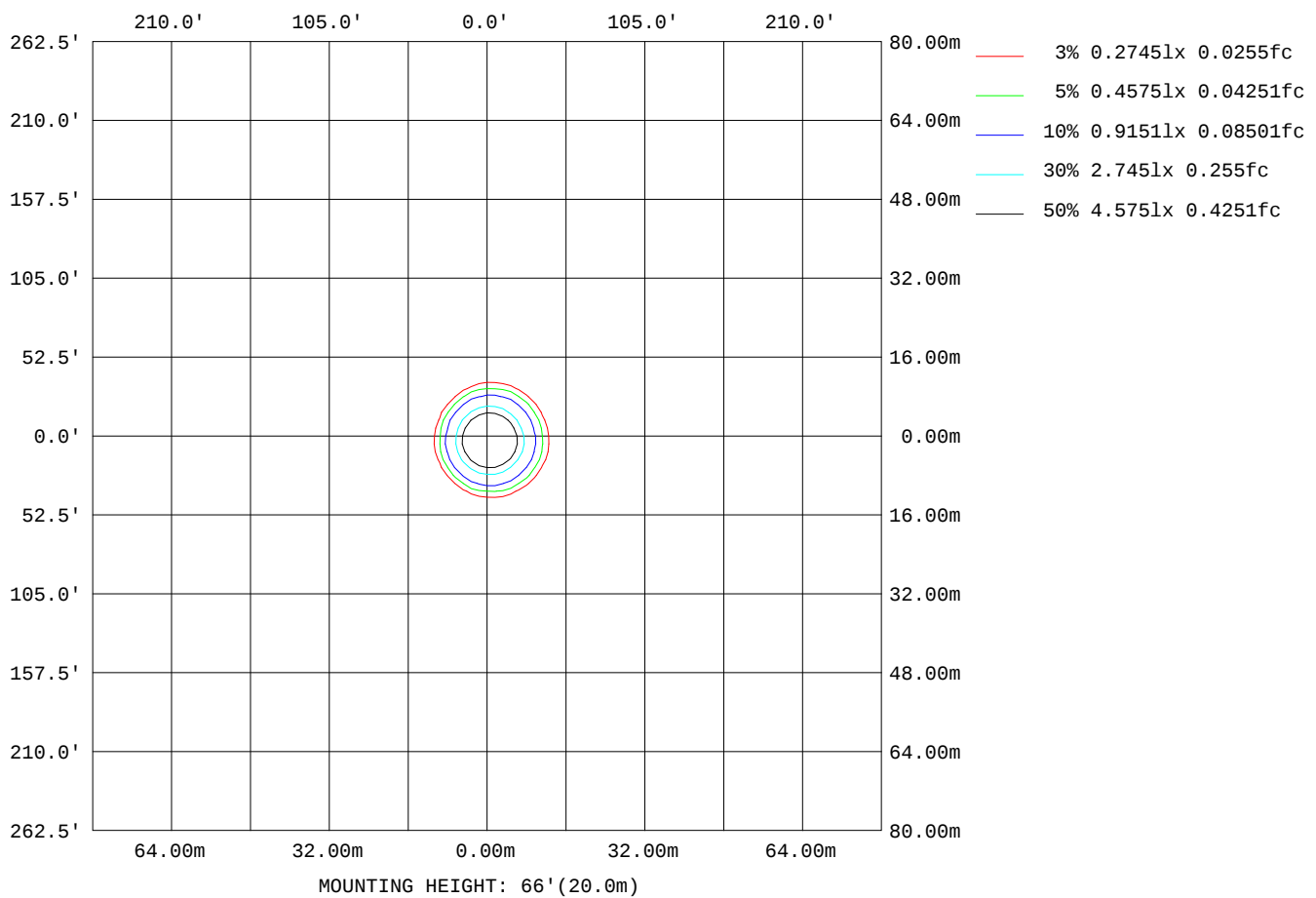
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:28DEG
Operators:LGL
Test Date:2021-08-10

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-VF63RA01-15W	TYPE: indoor lights	WEIGHT: 1
SPEC.: 3000K-CRI90-24D	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature: 28DEG
Operators: LGL
Test Date: 2021-08-10

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-VF63RA01-15W	TYPE:indoor lights	WEIGHT:1
SPEC.:3000K-CRI90-24D	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

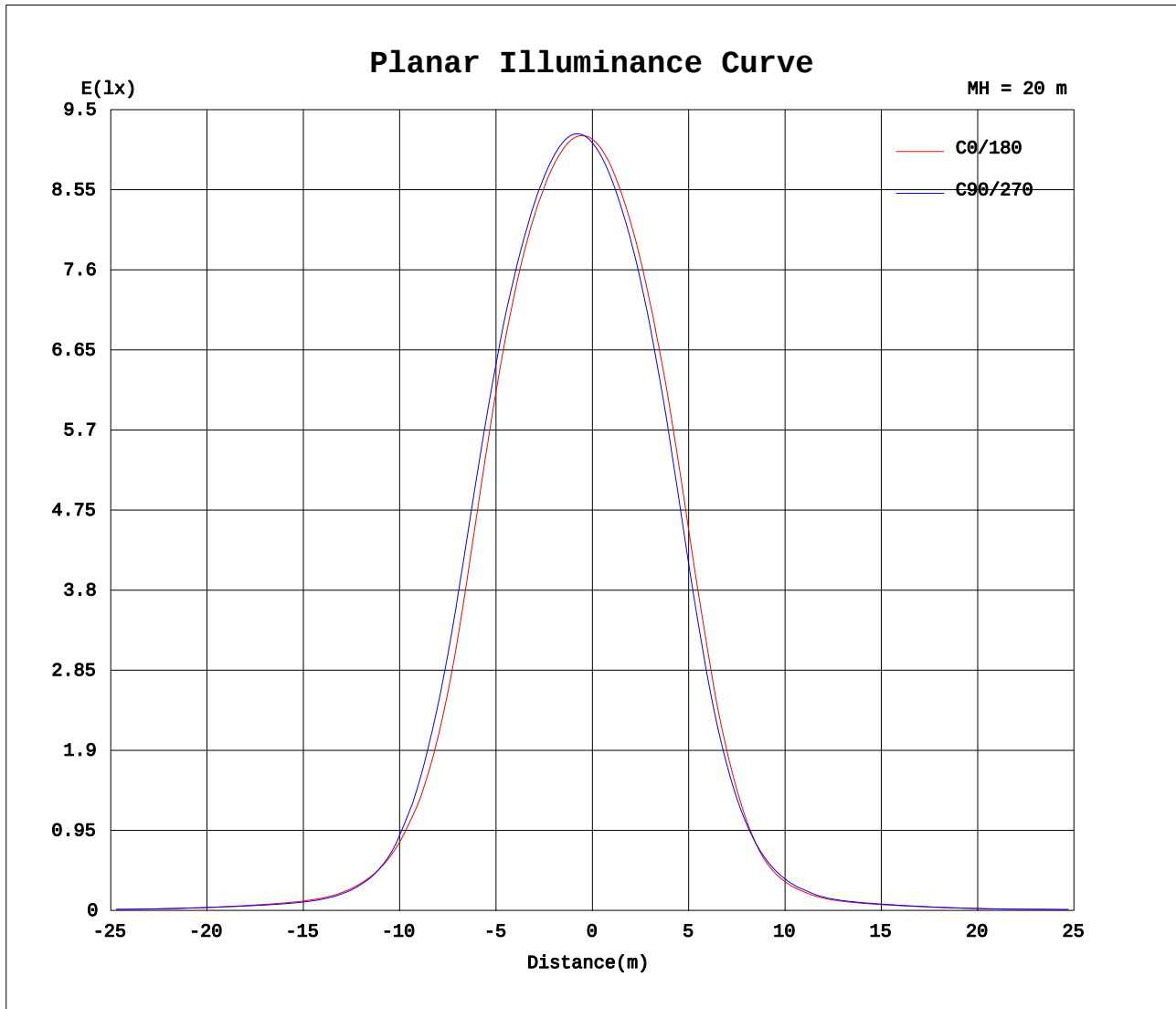
AvgL	cd/m2
L_0~180(65)av	19502
L_0~180(75)av	9346
L_0~180(85)av	3770
L_90~270(65)av	20096
L_90~270(75)av	19382
L_90~270(85)av	4511
L_45(65)av	20113
L_45(75)av	19490
L_45(85)av	4702

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:28DEG
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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
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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-VF63RA01-15W	TYPE:indoor lights	WEIGHT:1
SPEC.:3000K-CRI90-24D	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	3644	3644	3644	3644	3644	3644	3644	3644	3644	3644	3644	3644	3644	3644	3644	3644	3644	3644	3644
5	3606	3661	3687	3713	3705	3701	3662	3631	3575	3530	3465	3428	3362	3312	3292	3267	3273	3270	3301
10	3262	3368	3408	3461	3438	3426	3349	3292	3179	3097	2968	2885	2751	2646	2607	2549	2560	2558	2625
15	2498	2677	2744	2829	2800	2790	2678	2591	2410	2282	2077	1955	1759	1617	1578	1502	1527	1511	1599
20	1369	1565	1634	1747	1718	1722	1603	1528	1335	1205	1018	916	780	691	672	635	659	660	720
25	601	683	718	782	764	767	686	633	532	443	350	310	259	234	233	227	239	249	279
30	243	274	283	294	279	271	237	216	180	157	133	123	107	99.3	99.2	99.4	103	107	118
35	109	119	121	125	114	109	98.8	92.7	83.2	76.1	69.1	65.5	63.2	62.1	62.7	62.9	64.3	66.0	69.3
40	68.6	72.3	72.3	71.3	67.8	65.3	61.1	58.7	54.1	50.4	47.0	45.8	44.2	42.7	42.3	42.0	43.4	44.3	46.8
45	42.5	45.3	45.4	46.4	45.3	44.5	41.9	39.3	35.6	33.3	30.8	29.4	27.5	25.9	25.3	25.0	26.1	26.4	27.8
50	24.0	25.0	25.2	26.2	26.1	26.0	24.6	23.2	21.6	20.9	20.2	20.0	19.9	19.7	19.8	19.9	20.4	20.8	21.3
55	19.3	19.6	19.5	19.8	19.7	19.6	18.9	18.3	17.4	17.0	16.4	16.2	16.1	16.0	16.1	16.1	16.4	16.6	17.0
60	15.5	15.7	15.6	15.6	15.3	15.1	14.6	14.3	13.7	13.4	13.1	13.0	12.9	12.8	13.0	13.1	13.3	13.5	13.8
65	12.1	12.5	12.5	12.5	12.1	12.0	11.6	11.4	11.1	11.0	10.8	10.8	10.7	10.8	11.3	11.4	11.6	11.8	11.9
70	8.69	9.49	10.3	10.4	10.1	9.94	9.69	9.62	9.46	9.47	9.37	8.66	8.01	7.77	9.09	9.46	9.66	9.75	10.0
75	2.76	4.43	6.32	7.37	7.03	6.98	6.70	6.70	6.51	6.57	6.22	4.86	3.94	4.03	5.97	6.68	6.93	6.96	7.20
80	0.57	0.64	2.06	3.30	3.15	3.15	2.96	3.01	2.86	2.89	2.45	1.73	0.95	1.52	2.22	2.54	2.86	2.82	3.00
85	0.39	0.45	0.48	0.52	0.48	0.48	0.46	0.50	0.53	0.56	0.60	0.59	0.52	0.54	0.60	0.68	0.69	0.69	0.63
90	0.36	0.37	0.43	0.39	0.38	0.35	0.35	0.39	0.40	0.42	0.43	0.42	0.35	0.42	0.42	0.41	0.38	0.36	0.34
95	0.38	0.37	0.37	0.38	0.37	0.37	0.35	0.37	0.38	0.40	0.37	0.37	0.38	0.36	0.38	0.41	0.41	0.37	0.38
100	0.40	0.41	0.39	0.41	0.40	0.42	0.41	0.42	0.41	0.42	0.41	0.43	0.43	0.45	0.43	0.45	0.43	0.45	0.44
105	0.47	0.47	0.44	0.47	0.45	0.47	0.46	0.48	0.46	0.48	0.48	0.50	0.53	0.52	0.53	0.52	0.53	0.50	0.51
110	0.55	0.53	0.51	0.53	0.51	0.54	0.53	0.56	0.55	0.58	0.58	0.61	0.66	0.66	0.67	0.66	0.66	0.63	0.62
115	0.70	0.67	0.65	0.65	0.64	0.67	0.67	0.71	0.73	0.76	0.79	0.84	0.93	0.97	0.99	1.00	0.98	0.96	0.91
120	1.01	0.95	0.92	0.90	0.91	0.94	0.98	1.03	1.12	1.18	1.28	1.36	1.57	1.71	1.73	1.81	1.75	1.74	1.61
125	1.79	1.65	1.61	1.54	1.58	1.59	1.71	1.78	1.97	2.09	2.32	2.49	2.88	3.10	3.18	3.30	3.24	3.21	3.01
130	3.28	3.05	2.95	2.83	2.88	2.94	3.09	3.23	3.51	3.73	4.10	4.37	4.91	5.24	5.36	5.54	5.46	5.42	5.14
135	5.53	5.19	5.04	4.88	4.97	4.99	5.23	5.40	5.80	6.09	6.59	6.92	7.58	7.99	8.14	8.36	8.26	8.22	7.88
140	8.29	7.89	7.74	7.58	7.65	7.68	7.97	8.19	8.64	8.98	9.54	9.92	10.6	11.1	11.2	11.4	11.3	11.3	10.9
145	11.4	11.0	10.8	10.6	10.7	10.7	11.0	11.3	11.7	12.1	12.6	13.0	13.7	14.1	14.2	14.4	14.3	14.3	14.0
150	14.3	14.0	13.8	13.6	13.7	13.8	14.0	14.3	14.6	14.9	15.4	15.7	16.3	16.6	16.7	16.8	16.8	16.7	16.5
155	16.5	16.3	16.2	16.1	16.1	16.2	16.4	16.6	16.8	17.1	17.3	17.5	17.8	17.9	17.9	18.0	18.0	18.0	17.8
160	17.3	17.3	17.2	17.4	17.5	17.6	17.6	17.7	17.8	17.9	17.7	17.7	17.7	17.7	17.7	17.6	17.7	17.7	17.7
165	16.8	16.9	16.9	17.1	17.3	17.5	17.5	17.5	17.3	17.1	16.8	16.7	16.5	16.4	16.3	16.2	16.1	16.2	16.3
170	15.5	15.6	15.6	15.7	15.8	15.9	15.8	15.7	15.4	15.3	15.2	15.0	15.0	14.8	14.7	14.4	14.2	14.2	14.2
175	14.2	14.3	14.3	14.4	14.4	14.2	14.1	14.0	13.9	14.0	13.9	13.6	13.9	13.9	13.8	13.7	13.4	13.2	13.0
180	13.9	13.9	13.8	13.9	13.7	13.5	13.4	13.3	13.4	13.6	13.5	13.4	13.9	13.9	13.8	13.9	13.7	13.5	13.4

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:28DEG
Operators:LGL
Test Date:2021-08-10

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-VF63RA01-15W	TYPE:indoor lights	WEIGHT:1
SPEC.:3000K-CRI90-24D	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

Table--2

UNIT: cd

C (DEG) γ (DEG)	285	300	315	330	345														
0	3644	3644	3644	3644	3644														
5	3324	3380	3420	3483	3532														
10	2675	2789	2879	3018	3120														
15	1654	1810	1924	2126	2265														
20	765	872	943	1075	1168														
25	306	360	400	462	510														
30	128	151	165	190	208														
35	73.0	80.3	84.9	90.2	96.4														
40	48.7	52.2	54.9	59.2	62.5														
45	28.5	30.3	31.9	35.3	37.7														
50	21.5	21.6	21.7	22.3	22.7														
55	17.2	17.7	17.9	18.3	18.5														
60	14.0	14.3	14.5	14.9	15.0														
65	12.1	12.2	12.2	12.4	12.0														
70	10.2	10.5	10.6	10.1	8.50														
75	7.22	7.46	7.32	5.89	3.38														
80	2.98	3.19	2.92	1.86	0.54														
85	0.63	0.57	0.51	0.42	0.38														
90	0.35	0.36	0.39	0.38	0.33														
95	0.35	0.38	0.37	0.37	0.33														
100	0.41	0.42	0.39	0.40	0.38														
105	0.48	0.48	0.45	0.46	0.45														
110	0.59	0.58	0.54	0.54	0.53														
115	0.86	0.79	0.74	0.71	0.70														
120	1.52	1.36	1.26	1.13	1.09														
125	2.85	2.57	2.37	2.14	2.01														
130	4.93	4.52	4.24	3.88	3.64														
135	7.61	7.12	6.77	6.27	5.98														
140	10.7	10.1	9.76	9.17	8.81														
145	13.7	13.2	12.8	12.3	11.9														
150	16.3	15.9	15.5	15.1	14.8														
155	17.7	17.5	17.2	17.0	16.8														
160	17.7	17.6	17.5	17.3	17.4														
165	16.3	16.4	16.3	16.5	16.6														
170	14.3	14.4	14.5	14.7	15.0														
175	13.1	13.4	13.5	13.4	13.5														
180	13.3	13.4	13.6	13.5	13.4														

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:28DEG
Operators:LGL
Test Date:2021-08-10

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: