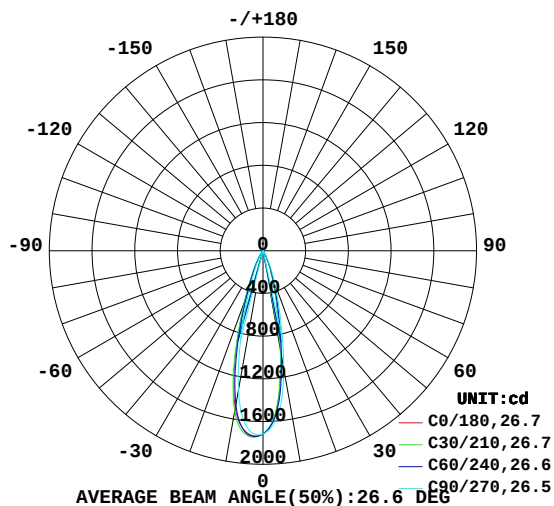


LUMINAIRE PHOTOMETRIC TEST REPORT

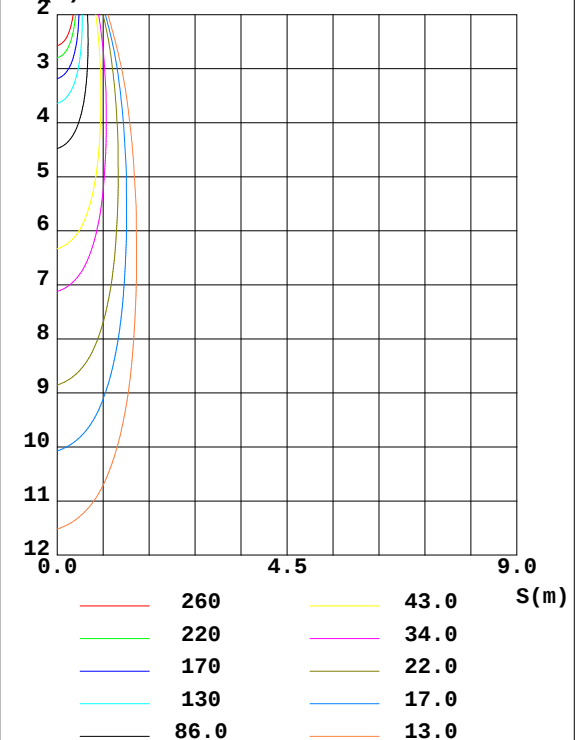
NAME: VM050-VF51RA01-8W	TYPE: indoor light	WEIGHT: 1
SPEC.: 3000K CIR90 15D	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 54.38 lm/W			
MODEL	VM050-VF51RA01-8W	Imax(cd)	1748	S/MH(C0/180)	0.51
NOMINAL POWER(W)	8	LOR(%)	100.0	S/MH(C90/270)	0.46
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	442.60	η UP, DN(C0-180)	1.2, 45.7
NOMINAL FLUX(lm)	442.599	CIE CLASS	DIRECT	η UP, DN(C180-360)	1.2, 51.8
LAMPS INSIDE	1	η up(%)	2.5	CIBSE SHR NOM	0.00
TEST VOLTAGE(V)	220	η down(%)	97.5	CIBSE SHR MAX	1.00

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: 2021-8-16

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:

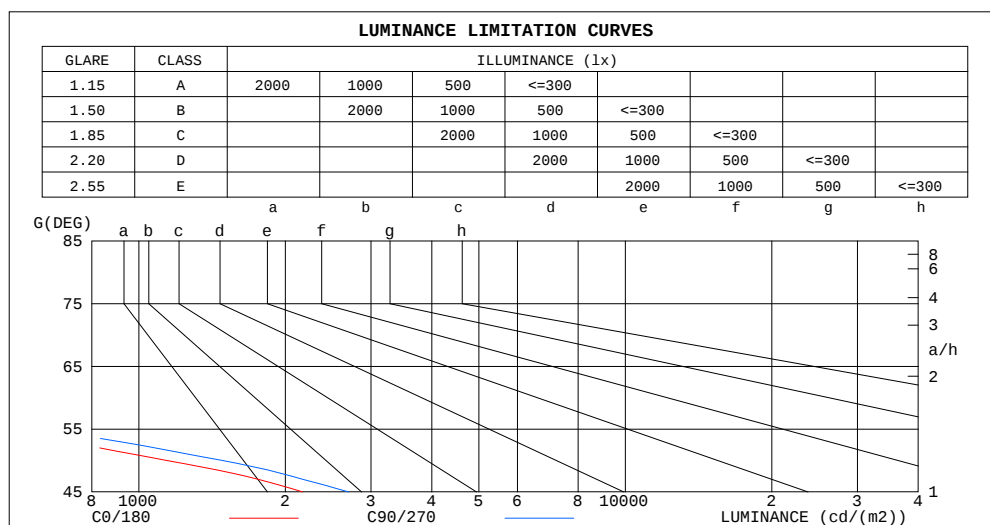
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	942.2	980.0	1120	1351	1495	1491	1320	1054	0- 10	140.8	140.8	31.8, 31.8
20	232.0	262.9	319.3	419.9	495.0	465.2	353.1	243.9	10- 20	195.5	336.4	76, 76
30	31.66	33.58	51.24	86.21	107.8	93.98	67.08	40.75	20- 30	76.80	413.2	93.3, 93.3
40	3.811	3.796	4.869	6.535	9.474	9.541	7.232	4.407	30- 40	15.26	428.4	96.8, 96.8
50	1.009	0.9362	1.321	1.778	1.982	1.977	1.813	1.350	40- 50	2.415	430.8	97.3, 97.3
60	0.0703	0.0638	0.0686	0.2210	0.3133	0.3333	0.2776	0.0871	50- 60	0.6448	431.5	97.5, 97.5
70	0.0681	0.0726	0.0685	0.0687	0.0637	0.0749	0.0664	0.0599	60- 70	0.0845	431.6	97.5, 97.5
80	0.0681	0.0815	0.0685	0.0798	0.0682	0.0616	0.0708	0.0621	70- 80	0.0729	431.6	97.5, 97.5
90	0.0769	0.0925	0.0841	0.0909	0.0922	0.0638	0.0862	0.0665	80- 90	0.0823	431.7	97.5, 97.5
100	0.0990	0.1034	0.0996	0.0998	0.1011	0.0880	0.1017	0.0953	90-100	0.0979	431.8	97.6, 97.6
110	0.1362	0.1498	0.1237	0.1198	0.1231	0.1012	0.1260	0.1285	100-110	0.1136	431.9	97.6, 97.6
120	0.4762	0.4408	0.3555	0.2641	0.2509	0.2485	0.3232	0.4230	110-120	0.2024	432.1	97.6, 97.6
130	1.734	1.666	1.373	1.010	0.9226	0.9874	1.203	1.568	120-130	0.6503	432.8	97.8, 97.8
140	4.098	3.987	3.592	3.015	2.792	2.893	3.269	3.851	130-140	1.754	434.5	98.2, 98.2
150	6.169	6.064	5.851	5.430	5.254	5.331	5.676	6.052	140-150	2.883	437.4	98.8, 98.8
160	6.397	6.446	6.614	6.623	6.616	6.613	6.735	6.599	150-160	2.911	440.3	99.5, 99.5
170	5.014	5.012	5.495	5.819	6.003	5.948	5.774	5.322	160-170	1.771	442.1	99.9, 99.9
180	4.625	4.740	4.727	4.774	4.634	4.733	4.734	4.774	170-180	0.4902	442.6	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: 2021-8-16

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: VM050-VF51RA01-8W	TYPE: indoor light	WEIGHT: 1
SPEC.: 3000K CIR90 15D	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	604	640
80	285	285
75	191	191
70	145	145
65	117	117
60	102	99
55	449	594
50	1139	1483
45	2171	2697

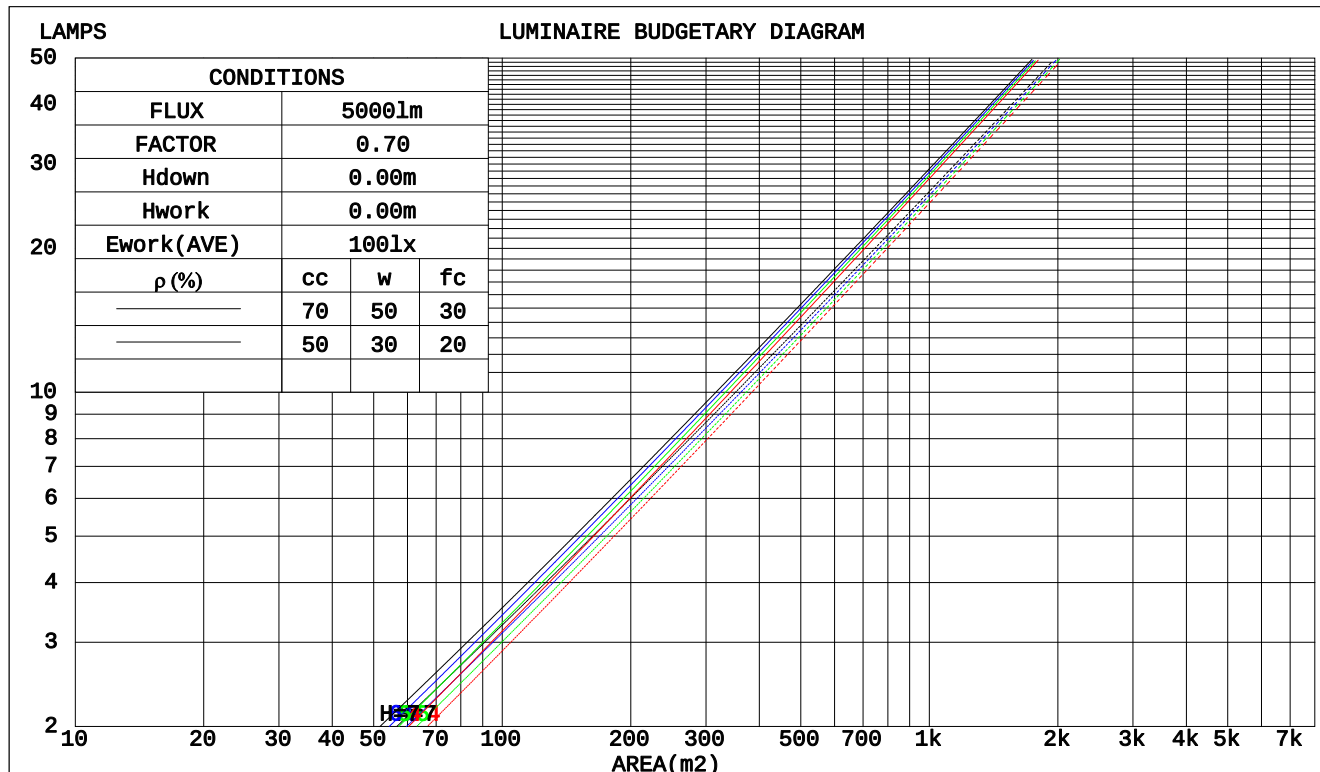
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: MEDIUM
 Temperature: 28DEG
 Operators: LGL
 Test Date: 2021-8-16

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: VM050-VF51RA01-8W	TYPE:indoor light	WEIGHT:1
SPEC.:3000K CIR90 15D	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	1.12	1.10	1.08	1.10	1.08	1.06	1.05	1.04	1.03	1.01	1.00	.99	.97	.97	.96	.94
2.0	1.07	1.04	1.01	1.05	1.02	.00	1.01	.99	.97	.98	.96	.95	.95	.94	.92	.91
3.0	1.02	.98	.95	1.00	.97	.94	.98	.95	.93	.95	.93	.91	.93	.91	.89	.88
4.0	.98	.94	.90	.96	.93	.90	.94	.91	.89	.92	.89	.87	.90	.88	.86	.85
5.0	.94	.90	.87	.93	.89	.86	.91	.88	.85	.89	.86	.84	.88	.85	.83	.82
6.0	.90	.86	.83	.90	.86	.83	.88	.85	.82	.87	.84	.81	.85	.83	.81	.79
7.0	.87	.83	.80	.87	.83	.80	.85	.82	.79	.84	.81	.79	.83	.80	.78	.77
8.0	.84	.80	.77	.84	.80	.77	.83	.79	.77	.82	.79	.76	.81	.78	.76	.75
9.0	.82	.78	.75	.81	.77	.75	.80	.77	.74	.79	.76	.74	.79	.76	.74	.73
10.0	.79	.75	.73	.79	.75	.72	.78	.75	.72	.77	.74	.72	.77	.74	.72	.71



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: MEDIUM
 Temperature:28DEG
 Operators:LGL
 Test Date:2021-8-16

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:

WEC AND CCEC

NAME: VM050-VF51RA01-8W	TYPE:indoor light	WEIGHT:1
SPEC.:3000K CIR90 15D	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	.141	.080	.025	.134	.076	.024	.120	.069	.022	.107	.062	.020	.095	.055	.018		
2.0	.131	.072	.022	.125	.069	.021	.113	.063	.020	.102	.057	.018	.093	.052	.017		
3.0	.122	.065	.019	.117	.063	.019	.107	.058	.018	.098	.054	.016	.090	.050	.015		
4.0	.114	.059	.017	.110	.058	.017	.102	.054	.016	.094	.050	.015	.087	.047	.014		
5.0	.108	.055	.016	.104	.053	.016	.097	.050	.015	.090	.048	.014	.084	.045	.013		
6.0	.102	.051	.015	.099	.050	.014	.093	.047	.014	.087	.045	.013	.081	.043	.013		
7.0	.097	.048	.014	.094	.047	.013	.089	.045	.013	.083	.043	.012	.079	.041	.012		
8.0	.093	.045	.013	.090	.044	.013	.085	.043	.012	.080	.041	.012	.076	.039	.011		
9.0	.089	.043	.012	.086	.042	.012	.082	.040	.011	.078	.039	.011	.074	.037	.011		
10.0	.085	.041	.011	.083	.040	.011	.079	.039	.011	.075	.037	.011	.072	.036	.010		

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	.177	.167	.160	.151	.143	.110	.104	.099	.063	.060	.058	.020	.019	.019	
2.0	.170	.152	.136	.145	.131	.118	.100	.090	.082	.057	.053	.048	.018	.017	.016	
3.0	.155	.132	.114	.133	.114	.099	.091	.079	.070	.053	.046	.041	.017	.015	.013	
4.0	.143	.117	.098	.123	.101	.085	.084	.071	.060	.049	.041	.035	.016	.013	.012	
5.0	.133	.105	.085	.114	.091	.074	.078	.063	.052	.045	.037	.031	.015	.012	.010	
6.0	.124	.095	.074	.106	.082	.065	.073	.058	.046	.043	.034	.027	.014	.011	.009	
7.0	.116	.087	.066	.100	.075	.058	.069	.053	.041	.040	.031	.024	.013	.010	.008	
8.0	.110	.080	.060	.095	.070	.052	.066	.049	.037	.038	.029	.022	.012	.009	.007	
9.0	.104	.075	.055	.090	.065	.048	.062	.046	.034	.036	.027	.020	.012	.009	.007	
10.0	.100	.070	.050	.086	.061	.044	.060	.043	.031	.035	.025	.019	.011	.008	.006	

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:28DEG
Operators:LGL
Test Date:2021-8-16

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: vM050-vF51RA01-8W						TYPE:indoor light			WEIGHT:1		
SPEC.:3000K CIR90 15D						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	2H	4.7	5.4	4.9	5.5	5.7	6.7	7.4	6.9	7.6	7.7
	3H	4.5	5.2	4.8	5.4	5.6	6.6	7.2	6.8	7.4	7.6
	4H	4.5	5.1	4.8	5.3	5.6	6.5	7.1	6.8	7.3	7.6
	6H	4.4	5.0	4.7	5.2	5.5	6.4	7.0	6.7	7.2	7.5
	8H	4.4	4.9	4.7	5.2	5.5	6.4	6.9	6.7	7.2	7.5
	12H	4.4	4.9	4.8	5.2	5.5	6.4	6.9	6.7	7.2	7.5
4H	2H	4.5	5.0	4.8	5.3	5.5	6.5	7.0	6.8	7.3	7.5
	3H	4.3	4.8	4.6	5.1	5.4	6.3	6.8	6.6	7.1	7.4
	4H	4.2	4.7	4.6	5.0	5.4	6.2	6.7	6.6	7.0	7.4
	6H	4.2	4.6	4.6	5.0	5.4	6.1	6.5	6.5	6.9	7.3
	8H	4.2	4.6	4.6	5.0	5.4	6.1	6.5	6.5	6.9	7.3
	12H	4.2	4.6	4.7	5.0	5.4	6.1	6.5	6.6	6.9	7.3
8H	4H	4.1	4.5	4.5	4.9	5.3	6.1	6.4	6.5	6.8	7.2
	6H	4.1	4.4	4.5	4.8	5.3	6.0	6.3	6.5	6.7	7.2
	8H	4.1	4.4	4.6	4.8	5.3	6.0	6.3	6.5	6.7	7.2
	12H	4.2	4.5	4.7	5.0	5.5	6.0	6.3	6.5	6.8	7.3
12H	4H	4.0	4.4	4.5	4.8	5.2	6.0	6.3	6.4	6.8	7.2
	6H	4.0	4.3	4.5	4.8	5.2	5.9	6.2	6.4	6.7	7.2
	8H	4.1	4.3	4.6	4.8	5.3	5.9	6.2	6.5	6.7	7.2
Variations with the observer position at spacings:											
S = 1.0H		+ 2.8 / - 6.2					+ 3.5 / - 7.2				
1.5H		+ 4.4 / - 6.2					+ 5.1 / - 7.2				
2.0H		+ 5.4 / - 3.7					+ 5.9 / - 4.6				

CIE Pub.117, 442.6 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -2.8)

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:28DEG
Operators:LGL
Test Date:2021-8-16

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: VM050-VF51RA01-8W	TYPE:indoor light	WEIGHT:1
SPEC.:3000K CIR90 15D	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

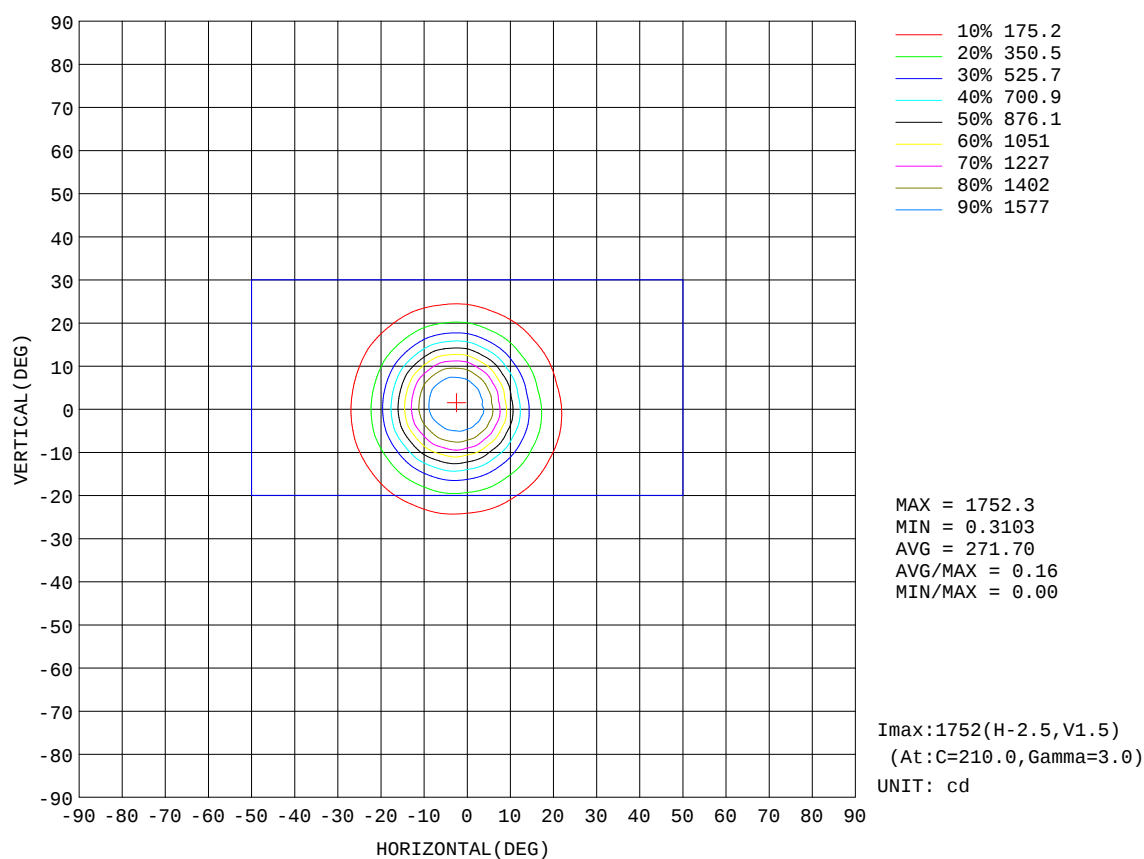
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) k(RI) × RCR = 5									
k = 0.60	90	84	80	89	84	80	88	83	80	77
0.80	97	91	88	96	91	88	94	90	87	84
1.00	100	95	92	99	95	92	98	94	91	87
1.25	104	99	96	103	99	96	101	97	95	90
1.50	107	102	99	105	101	98	103	100	97	93
2.00	109	105	102	107	104	101	104	101	99	94
2.50	110	107	104	109	105	103	105	103	101	94
3.00	112	109	106	110	107	105	106	104	102	95
4.00	114	111	109	111	109	107	107	106	104	97
5.00	115	113	111	113	111	109	108	107	106	98
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004										
Suspended										
SHRNM = 1.25										

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: MEDIUM
 Temperature:28DEG
 Operators:LGL
 Test Date:2021-8-16

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: VM050-VF51RA01-8W	TYPE: indoor light	WEIGHT: 1
SPEC.: 3000K CIR90 15D	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

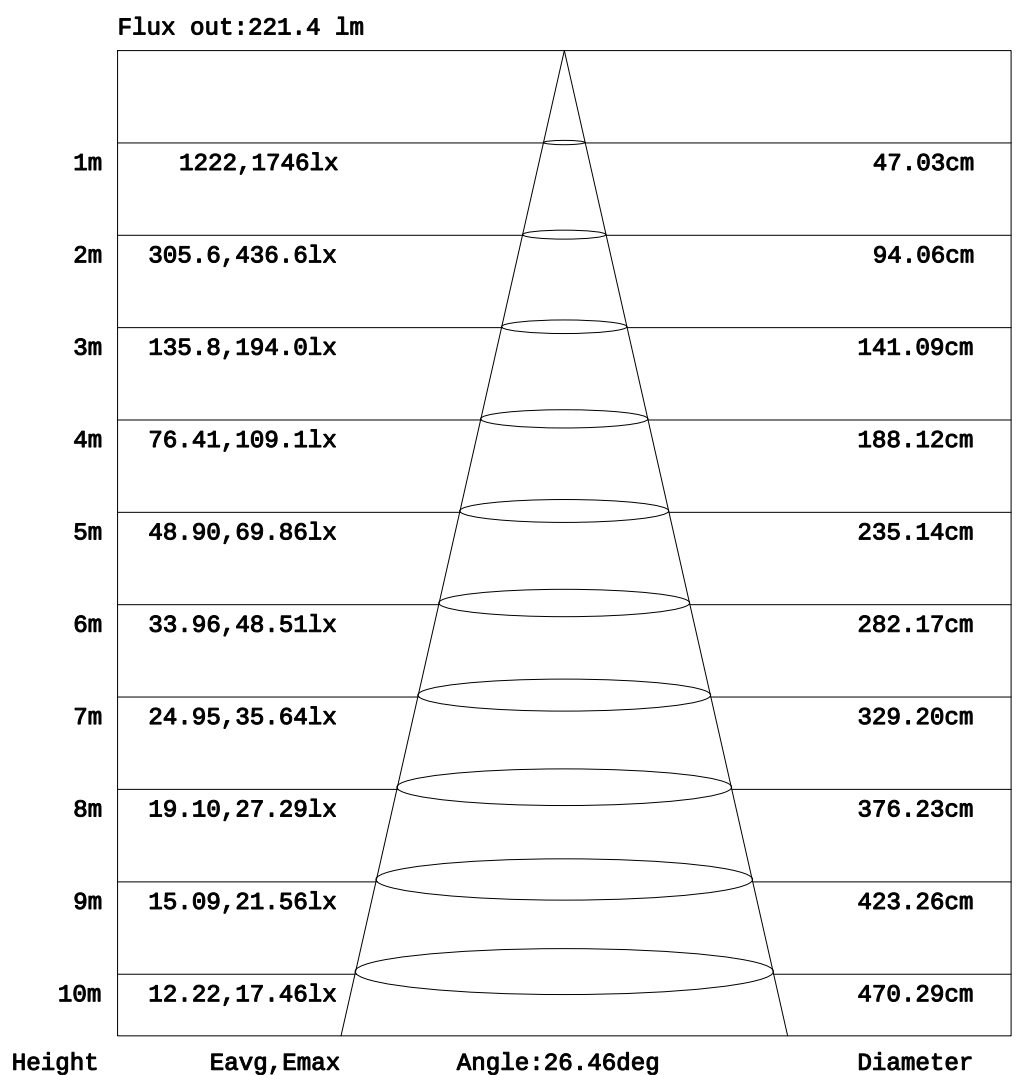


C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature: 28DEG
Operators: LGL
Test Date: 2021-8-16

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: VM050-VF51RA01-8W	TYPE:indoor light	WEIGHT:1
SPEC.:3000K CIR90 15D	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



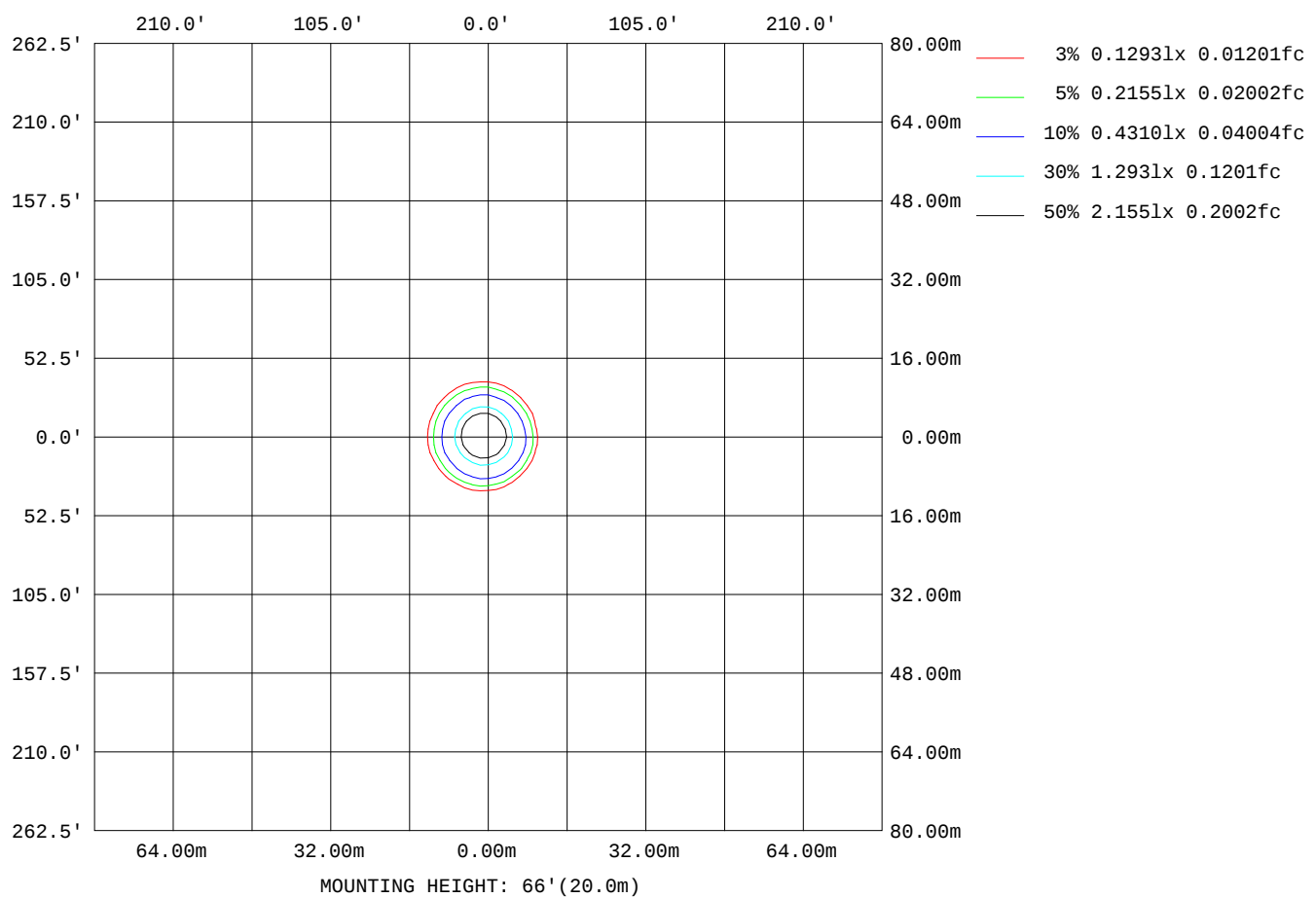
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: MEDIUM
 Temperature:28DEG
 Operators:LGL
 Test Date:2021-8-16

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: VM050-VF51RA01-8W	TYPE: indoor light	WEIGHT: 1
SPEC.: 3000K CIR90 15D	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature: 28DEG
Operators: LGL
Test Date: 2021-8-16

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: VM050-VF51RA01-8W	TYPE:indoor light	WEIGHT:1
SPEC.:3000K CIR90 15D	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

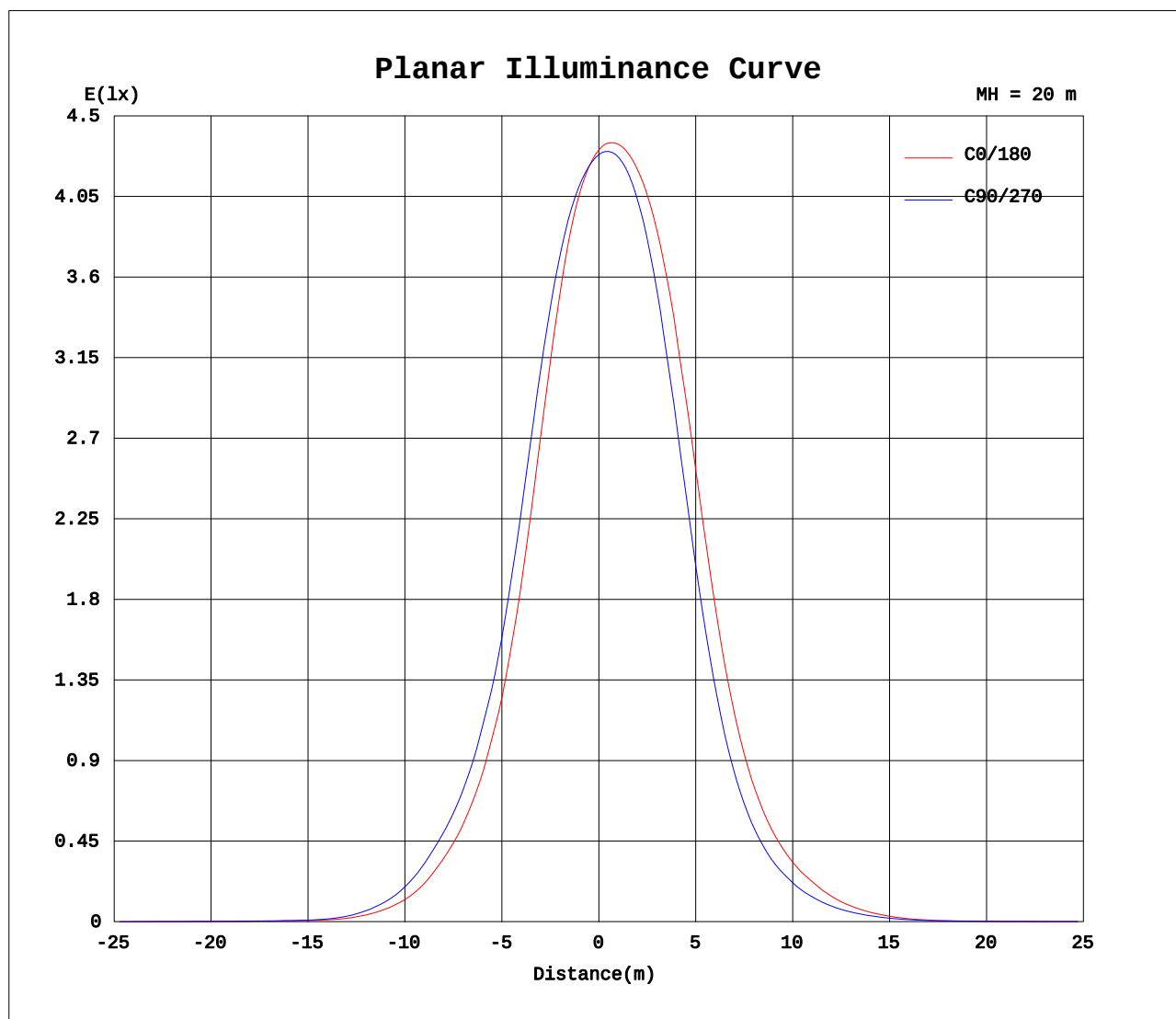
AvgL	cd/m2
L_0~180(65)av	113
L_0~180(75)av	184
L_0~180(85)av	611
L_90~270(65)av	115
L_90~270(75)av	185
L_90~270(85)av	641
L_45(65)av	126
L_45(75)av	193
L_45(85)av	618

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: MEDIUM
 Temperature:28DEG
 Operators:LGL
 Test Date:2021-8-16

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: 2021-8-16

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: VM050-VF51RA01-8W	TYPE:indoor light	WEIGHT:1
SPEC.:3000K CIR90 15D	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	1716	1716	1716	1716	1716	1716	1716	1716	1716	1716	1716	1716	1716	1716	1716	1716	1716	1716	1716
5	1483	1487	1477	1498	1506	1538	1557	1593	1615	1649	1669	1701	1712	1721	1734	1726	1720	1690	1667
10	942	951	940	980	1001	1073	1120	1212	1269	1351	1404	1477	1495	1506	1525	1491	1465	1384	1320
15	481	487	492	513	537	578	614	687	740	832	888	976	991	995	1014	961	928	833	768
20	232	242	246	263	275	301	319	355	378	420	445	489	495	496	496	465	440	388	353
25	96.0	99.5	99.6	110	117	138	149	173	184	207	216	234	234	228	227	208	196	172	157
30	31.7	31.6	30.4	33.6	36.3	44.2	51.2	62.7	72.1	86.2	95.0	107	108	105	104	94.0	87.5	75.4	67.1
35	8.08	7.85	7.47	7.77	8.28	9.91	11.7	15.5	19.4	26.4	31.2	37.4	38.7	38.2	38.7	34.9	33.0	28.1	24.8
40	3.81	3.77	3.68	3.80	4.06	4.56	4.87	5.48	5.78	6.53	7.35	8.95	9.47	9.63	10.2	9.54	9.38	8.14	7.23
45	2.12	2.07	2.03	2.11	2.24	2.47	2.64	2.97	3.06	3.22	3.35	3.67	3.71	3.66	3.76	3.61	3.63	3.41	3.25
50	1.01	0.95	0.90	0.94	1.00	1.17	1.32	1.59	1.69	1.78	1.82	1.96	1.98	1.96	2.01	1.98	1.96	1.87	1.81
55	0.36	0.32	0.29	0.31	0.32	0.40	0.47	0.60	0.69	0.79	0.86	0.97	1.00	1.01	1.05	1.05	1.05	0.97	0.92
60	0.07	0.07	0.07	0.06	0.07	0.07	0.07	0.07	0.14	0.22	0.27	0.32	0.31	0.32	0.34	0.33	0.34	0.31	0.28
65	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.08	0.07	0.06	0.08	0.06	0.08	0.07	0.08	0.07
70	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.08	0.07	0.06	0.08	0.06	0.07	0.06	0.07	0.07
75	0.07	0.08	0.07	0.07	0.07	0.08	0.07	0.08	0.07	0.07	0.07	0.08	0.06	0.06	0.06	0.07	0.06	0.06	0.06
80	0.07	0.09	0.07	0.08	0.07	0.08	0.07	0.08	0.07	0.08	0.07	0.08	0.07	0.06	0.06	0.06	0.07	0.06	0.07
85	0.07	0.09	0.07	0.09	0.07	0.09	0.08	0.09	0.07	0.08	0.07	0.09	0.07	0.06	0.06	0.06	0.08	0.06	0.08
90	0.08	0.09	0.08	0.09	0.08	0.09	0.08	0.10	0.08	0.09	0.07	0.09	0.09	0.07	0.08	0.06	0.08	0.06	0.09
95	0.09	0.10	0.09	0.09	0.09	0.10	0.10	0.10	0.09	0.10	0.09	0.09	0.09	0.07	0.09	0.07	0.09	0.07	0.10
100	0.10	0.11	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.09	0.09	0.09	0.10	0.09	0.10
105	0.10	0.11	0.10	0.11	0.10	0.11	0.10	0.11	0.10	0.11	0.10	0.11	0.11	0.10	0.10	0.09	0.11	0.10	0.11
110	0.14	0.15	0.14	0.15	0.13	0.14	0.12	0.13	0.11	0.12	0.10	0.12	0.12	0.10	0.12	0.10	0.12	0.10	0.13
115	0.24	0.25	0.24	0.24	0.22	0.22	0.19	0.19	0.16	0.16	0.14	0.15	0.16	0.14	0.15	0.13	0.15	0.15	0.18
120	0.48	0.47	0.48	0.44	0.42	0.39	0.36	0.32	0.29	0.26	0.24	0.24	0.25	0.24	0.24	0.25	0.27	0.29	0.32
125	0.94	0.93	0.95	0.88	0.85	0.76	0.71	0.62	0.57	0.51	0.48	0.45	0.47	0.48	0.47	0.51	0.53	0.58	0.62
130	1.73	1.73	1.76	1.67	1.61	1.47	1.37	1.22	1.13	1.01	0.95	0.88	0.92	0.93	0.93	0.99	1.03	1.12	1.20
135	2.84	2.83	2.87	2.75	2.68	2.51	2.38	2.17	2.04	1.87	1.78	1.66	1.71	1.72	1.72	1.79	1.86	1.99	2.11
140	4.10	4.08	4.09	3.99	3.91	3.72	3.59	3.36	3.21	3.02	2.90	2.76	2.79	2.81	2.80	2.89	2.97	3.13	3.27
145	5.28	5.27	5.27	5.17	5.11	4.94	4.81	4.60	4.46	4.27	4.15	4.01	4.04	4.04	4.04	4.13	4.22	4.39	4.54
150	6.17	6.14	6.15	6.06	6.03	5.93	5.85	5.69	5.57	5.43	5.34	5.22	5.25	5.25	5.25	5.33	5.41	5.55	5.68
155	6.57	6.53	6.53	6.50	6.51	6.50	6.48	6.41	6.34	6.25	6.20	6.14	6.18	6.16	6.17	6.21	6.28	6.37	6.45
160	6.40	6.36	6.38	6.45	6.49	6.56	6.61	6.64	6.62	6.62	6.59	6.58	6.62	6.60	6.61	6.61	6.67	6.70	6.74
165	5.78	5.75	5.74	5.89	6.02	6.16	6.27	6.39	6.43	6.47	6.45	6.50	6.53	6.53	6.52	6.51	6.53	6.52	6.50
170	5.01	4.96	4.96	5.01	5.15	5.32	5.49	5.66	5.73	5.82	5.89	5.98	6.00	6.00	6.03	5.95	5.92	5.84	5.77
175	4.40	4.40	4.43	4.54	4.63	4.70	4.79	4.93	5.03	5.19	5.25	5.26	5.25	5.29	5.35	5.34	5.28	5.18	5.10
180	4.62	4.65	4.68	4.74	4.71	4.70	4.73	4.71	4.71	4.77	4.72	4.69	4.63	4.63	4.68	4.73	4.71	4.69	4.73

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:28DEG
Operators:LGL
Test Date:2021-8-16

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: VM050-VF51RA01-8W	TYPE:indoor light	WEIGHT:1
SPEC.:3000K CIR90 15D	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

Table--2

UNIT: cd

C(DEG) γ (DEG)	285	300	315	330	345														
0	1716	1716	1716	1716	1716														
5	1622	1592	1545	1521	1483														
10	1216	1151	1054	1008	943														
15	667	608	539	505	473														
20	303	275	244	235	222														
25	134	124	108	101	92.5														
30	56.3	48.6	40.8	36.6	31.6														
35	19.8	16.4	12.4	10.2	8.31														
40	5.97	5.17	4.41	4.12	3.81														
45	2.95	2.70	2.42	2.29	2.12														
50	1.67	1.53	1.35	1.22	1.06														
55	0.80	0.70	0.57	0.48	0.39														
60	0.22	0.16	0.09	0.06	0.07														
65	0.08	0.06	0.08	0.06	0.06														
70	0.08	0.06	0.06	0.06	0.06														
75	0.06	0.06	0.06	0.07	0.06														
80	0.07	0.07	0.06	0.07	0.06														
85	0.07	0.08	0.06	0.08	0.06														
90	0.07	0.09	0.07	0.09	0.07														
95	0.08	0.10	0.08	0.10	0.09														
100	0.10	0.10	0.10	0.10	0.10														
105	0.11	0.11	0.10	0.12	0.10														
110	0.11	0.14	0.13	0.15	0.14														
115	0.18	0.21	0.21	0.24	0.25														
120	0.35	0.39	0.42	0.45	0.49														
125	0.70	0.75	0.84	0.89	0.97														
130	1.33	1.42	1.57	1.65	1.77														
135	2.30	2.42	2.62	2.72	2.88														
140	3.49	3.63	3.85	3.96	4.13														
145	4.74	4.89	5.08	5.18	5.33														
150	5.83	5.93	6.05	6.12	6.20														
155	6.52	6.56	6.58	6.57	6.60														
160	6.72	6.68	6.60	6.51	6.46														
165	6.39	6.28	6.10	5.97	5.89														
170	5.61	5.50	5.32	5.22	5.12														
175	5.00	4.92	4.82	4.66	4.56														
180	4.71	4.71	4.77	4.72	4.68														

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:28DEG
Operators:LGL
Test Date:2021-8-16

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: