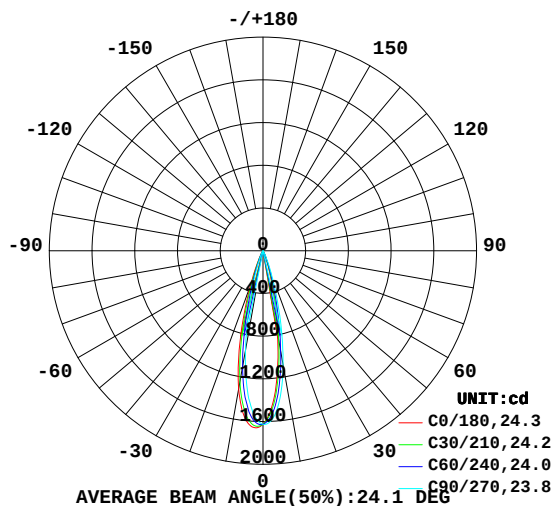


LUMINAIRE PHOTOMETRIC TEST REPORT

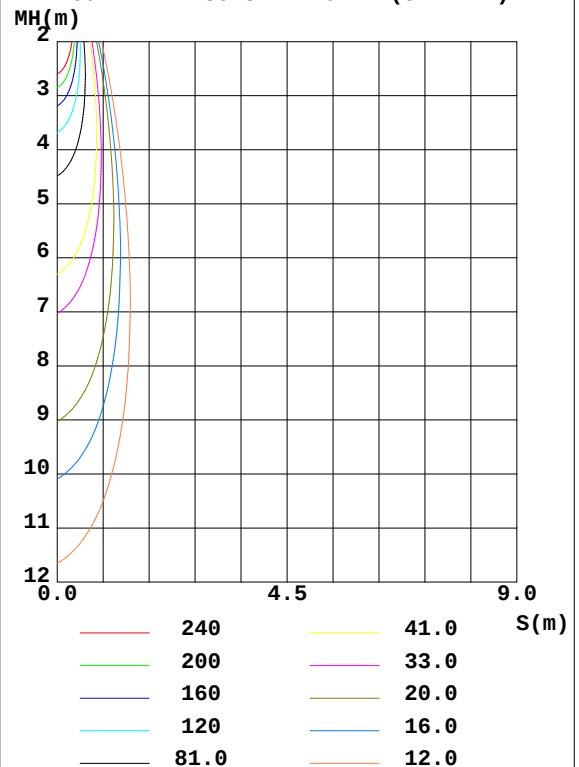
NAME: VM050-VF51RA01-5W	TYPE: indoor light	WEIGHT: 1
SPEC.: 3000K CIR90 24D	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 63.69 lm/W			
MODEL	VM050-VF51RA01-5W	Imax(cd)	1669	S/MH(C0/180)	0.47
NOMINAL POWER(W)	5	LOR(%)	100.0	S/MH(C90/270)	0.38
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	326.86	η UP, DN(C0-180)	1.2, 50.5
NOMINAL FLUX(lm)	326.864	CIE CLASS	DIRECT	η UP, DN(C180-360)	1.3, 47.0
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:

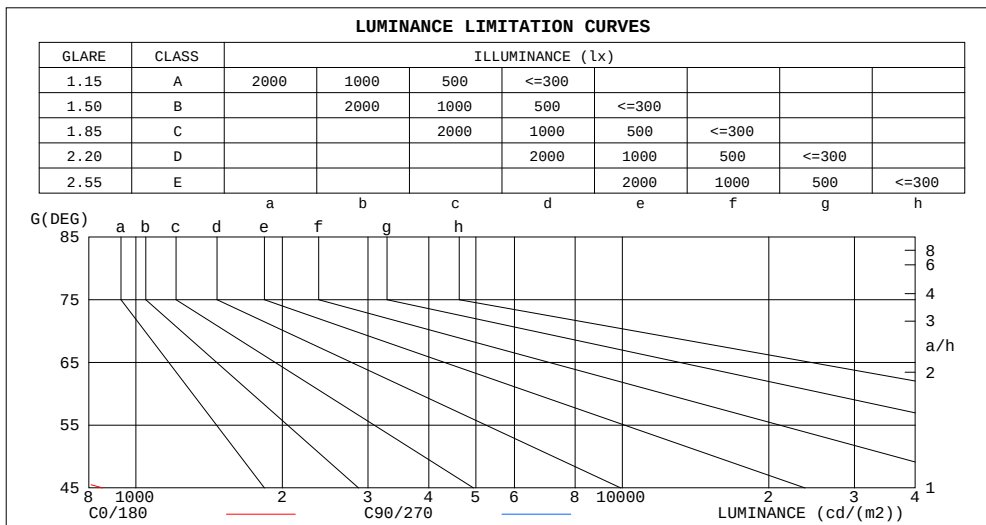
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	786.2	917.1	1085	1271	1313	1159	943.9	767.2	0- 10	125.8	125.8	38.5,38.5
20	121.2	151.6	224.7	333.9	338.6	235.1	164.8	119.2	10- 20	147.5	273.2	83.6,83.6
30	17.13	16.92	23.62	36.57	36.57	28.90	25.34	19.84	20- 30	38.08	311.3	95.2,95.2
40	1.870	1.562	1.963	3.211	3.411	3.262	3.477	2.598	30- 40	6.227	317.5	97.1,97.1
50	0.4568	0.3054	0.3078	0.3879	0.4903	0.5863	0.6638	0.6312	40- 50	0.8936	318.4	97.4,97.4
60	0.0596	0.0484	0.0552	0.0488	0.0549	0.0970	0.1144	0.1223	50- 60	0.2020	318.6	97.5,97.5
70	0.0551	0.0573	0.0486	0.0533	0.0463	0.0440	0.0486	0.0466	60- 70	0.0523	318.7	97.5,97.5
80	0.0617	0.0682	0.0553	0.0622	0.0507	0.0440	0.0553	0.0466	70- 80	0.0550	318.7	97.5,97.5
90	0.0661	0.0726	0.0641	0.0644	0.0682	0.0615	0.0686	0.0599	80- 90	0.0662	318.8	97.5,97.5
100	0.0661	0.0792	0.0641	0.0821	0.0838	0.0638	0.0795	0.0644	90-100	0.0765	318.9	97.6,97.6
110	0.0747	0.0881	0.0773	0.0911	0.0926	0.0704	0.0884	0.0754	100-110	0.0802	319.0	97.6,97.6
120	0.2198	0.1983	0.1587	0.1511	0.1521	0.1298	0.1880	0.2305	110-120	0.1121	319.1	97.6,97.6
130	1.133	0.9432	0.7231	0.5692	0.5893	0.6922	0.8920	1.162	120-130	0.3787	319.4	97.7,97.7
140	3.075	2.786	2.418	2.064	2.093	2.350	2.719	3.130	130-140	1.246	320.7	98.1,98.1
150	4.768	4.605	4.372	4.111	4.128	4.321	4.613	4.821	140-150	2.223	322.9	98.8,98.8
160	4.895	4.960	5.146	5.141	5.172	5.149	5.188	5.007	150-160	2.267	325.2	99.5,99.5
170	3.528	3.711	4.174	4.410	4.461	4.288	3.998	3.602	160-170	1.339	326.5	99.9,99.9
180	3.057	3.114	3.108	3.150	3.064	3.123	3.108	3.135	170-180	0.3418	326.9	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-VF51RA01-5W	TYPE: indoor light	WEIGHT: 1
SPEC.: 3000K CIR90 24D	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	531	531
80	257	230
75	166	142
70	117	103
65	94	83
60	86	80
55	265	134
50	515	346
45	854	687

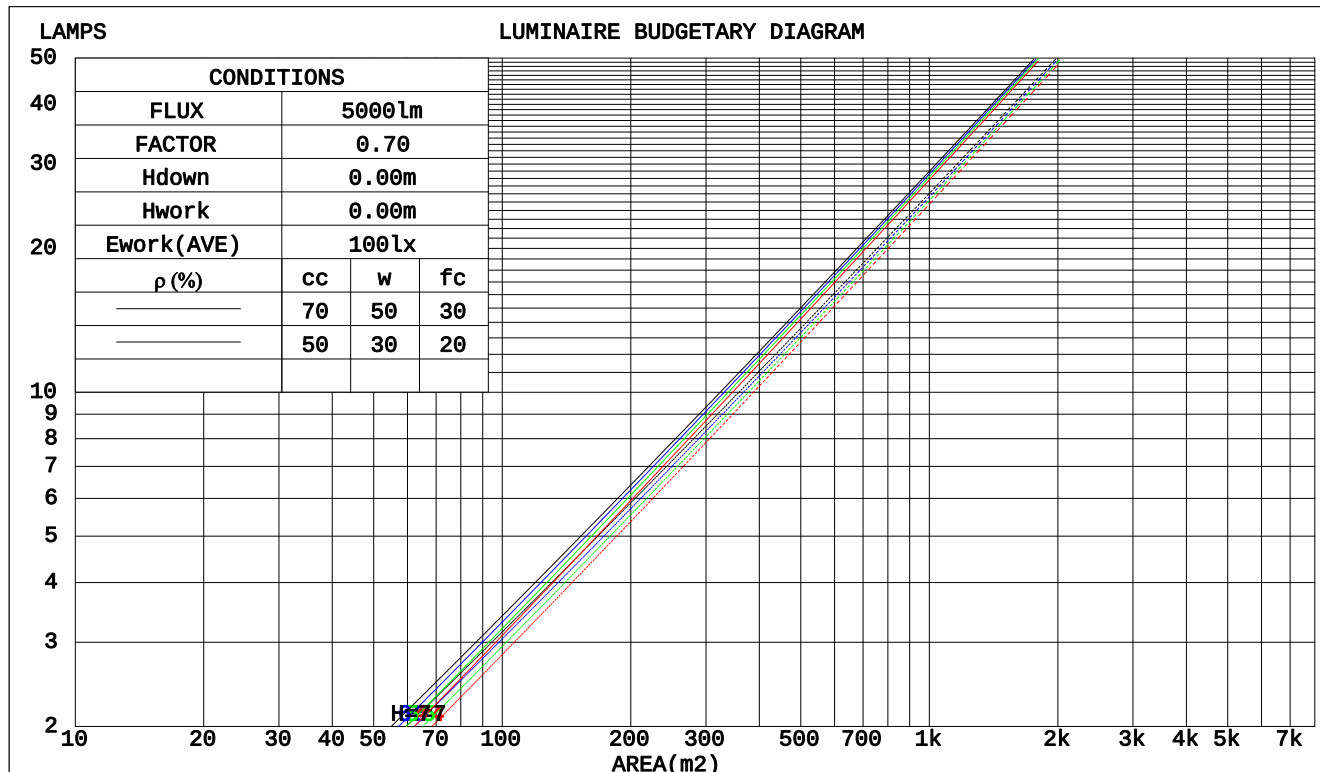
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: MEDIUM
 Temperature: 28DEG
 Operators: LGL
 Test Date: 2021-8-16

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-VF51RA01-5W	TYPE:indoor light	WEIGHT:1
SPEC.:3000K CIR90 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	1.12	1.11	1.09	1.10	1.08	1.07	1.06	1.04	1.03	1.02	1.01	.00	.98	.97	.97	.95
2.0	1.07	1.05	1.02	1.06	1.03	1.01	1.02	1.00	.98	.99	.97	.96	.96	.95	.94	.92
3.0	1.03	.00	.97	1.02	.98	.96	.99	.96	.94	.96	.94	.92	.94	.92	.91	.89
4.0	.99	.95	.93	.98	.95	.92	.96	.93	.91	.94	.91	.89	.92	.90	.88	.87
5.0	.96	.92	.89	.95	.91	.89	.93	.90	.88	.91	.89	.87	.90	.88	.86	.85
6.0	.93	.89	.86	.92	.88	.86	.90	.87	.85	.89	.86	.84	.88	.85	.83	.82
7.0	.90	.86	.83	.89	.86	.83	.88	.85	.82	.87	.84	.82	.86	.83	.81	.80
8.0	.88	.84	.81	.87	.83	.81	.86	.83	.80	.85	.82	.80	.84	.81	.79	.78
9.0	.85	.81	.79	.85	.81	.79	.84	.80	.78	.83	.80	.78	.82	.79	.77	.77
10.0	.83	.79	.77	.83	.79	.77	.82	.79	.76	.81	.78	.76	.80	.78	.76	.75



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-VF51RA01-5W	TYPE:indoor light	WEIGHT:1
SPEC.:3000K CIR90 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 Coeffcients(WEC)									
0.0																
1.0	.134	.076	.024	.126	.072	.023	.113	.065	.021	.100	.058	.019	.088	.051	.017	
2.0	.123	.067	.021	.117	.064	.020	.106	.059	.018	.095	.053	.017	.085	.048	.015	
3.0	.114	.061	.018	.109	.058	.018	.099	.054	.016	.090	.050	.015	.082	.045	.014	
4.0	.107	.055	.016	.102	.054	.016	.094	.050	.015	.086	.046	.014	.079	.043	.013	
5.0	.100	.051	.015	.096	.050	.014	.089	.047	.014	.083	.044	.013	.077	.041	.012	
6.0	.095	.047	.014	.091	.046	.013	.085	.044	.013	.079	.041	.012	.074	.039	.012	
7.0	.090	.044	.013	.087	.043	.012	.081	.041	.012	.076	.039	.011	.071	.037	.011	
8.0	.085	.042	.012	.083	.041	.012	.078	.039	.011	.073	.037	.011	.069	.036	.010	
9.0	.081	.039	.011	.079	.039	.011	.075	.037	.010	.071	.036	.010	.067	.034	.010	
10.0	.078	.037	.010	.076	.037	.010	.072	.035	.010	.068	.034	.010	.065	.033	.009	

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	.187	.177	.167	.160	.152	.144	.109	.104	.100	.063	.060	.058	.020	.019	.019	
2.0	.169	.152	.137	.145	.131	.119	.099	.090	.083	.057	.053	.049	.018	.017	.016	
3.0	.154	.132	.116	.132	.114	.100	.090	.079	.070	.052	.046	.041	.017	.015	.014	
4.0	.141	.117	.099	.121	.101	.086	.083	.071	.060	.048	.041	.036	.015	.013	.012	
5.0	.130	.105	.086	.112	.091	.075	.077	.063	.053	.045	.037	.031	.014	.012	.010	
6.0	.121	.095	.076	.104	.082	.066	.072	.057	.047	.042	.034	.028	.013	.011	.009	
7.0	.114	.087	.068	.098	.075	.059	.068	.053	.042	.039	.031	.025	.013	.010	.008	
8.0	.107	.080	.061	.092	.069	.053	.064	.049	.038	.037	.029	.022	.012	.009	.007	
9.0	.101	.074	.056	.087	.064	.049	.060	.045	.034	.035	.027	.021	.011	.009	.007	
10.0	.096	.069	.051	.083	.060	.045	.058	.042	.032	.034	.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-VF51RA01-5W						TYPE:indoor light			WEIGHT:1		
SPEC.:3000K CIR90 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	3H	3.0	3.6	3.2	3.8	4.0	4.2	4.8	4.4	5.0	5.2
	4H	2.9	3.4	3.1	3.7	3.9	4.1	4.6	4.3	4.9	5.1
	6H	2.8	3.4	3.1	3.6	3.9	4.0	4.6	4.3	4.8	5.0
	8H	2.8	3.3	3.1	3.6	3.9	4.0	4.5	4.3	4.7	5.0
	12H	2.8	3.3	3.2	3.6	3.9	4.0	4.5	4.3	4.7	5.0
	12H	2.9	3.4	3.2	3.7	4.0	4.0	4.5	4.3	4.8	5.1
4H	2H	2.8	3.3	3.1	3.5	3.8	4.0	4.5	4.3	4.8	5.0
	3H	2.6	3.1	3.0	3.4	3.7	3.8	4.3	4.2	4.6	4.9
	4H	2.6	3.0	2.9	3.3	3.7	3.8	4.2	4.1	4.5	4.9
	6H	2.6	3.0	3.0	3.4	3.7	3.7	4.1	4.1	4.5	4.9
	8H	2.7	3.0	3.1	3.4	3.8	3.8	4.1	4.2	4.5	4.9
	12H	2.8	3.2	3.3	3.6	4.0	3.9	4.2	4.3	4.6	5.0
8H	4H	2.4	2.8	2.9	3.2	3.6	3.6	4.0	4.0	4.4	4.8
	6H	2.5	2.8	3.0	3.3	3.7	3.6	3.9	4.1	4.4	4.8
	8H	2.7	2.9	3.2	3.4	3.9	3.7	4.0	4.2	4.4	4.9
	12H	3.0	3.2	3.5	3.7	4.2	3.9	4.1	4.4	4.6	5.1
12H	4H	2.4	2.7	2.8	3.1	3.6	3.6	3.9	4.0	4.3	4.7
	6H	2.5	2.8	3.0	3.2	3.7	3.6	3.9	4.1	4.3	4.8
	8H	2.7	2.9	3.2	3.4	3.9	3.7	4.0	4.2	4.4	5.0
Variations with the observer position at spacings:											
S = 1.0H		+ 3.2 / - 3.5					+ 3.9 / - 4.5				
1.5H		+ 5.2 / - 3.5					+ 6.3 / - 4.3				
2.0H		+ 3.4 / - 1.3					+ 2.7 / - 0.9				

CIE Pub.117, 326.9 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = -3.9$)

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-VF51RA01-5W	TYPE:indoor light	WEIGHT:1
SPEC.:3000K CIR90 24D	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

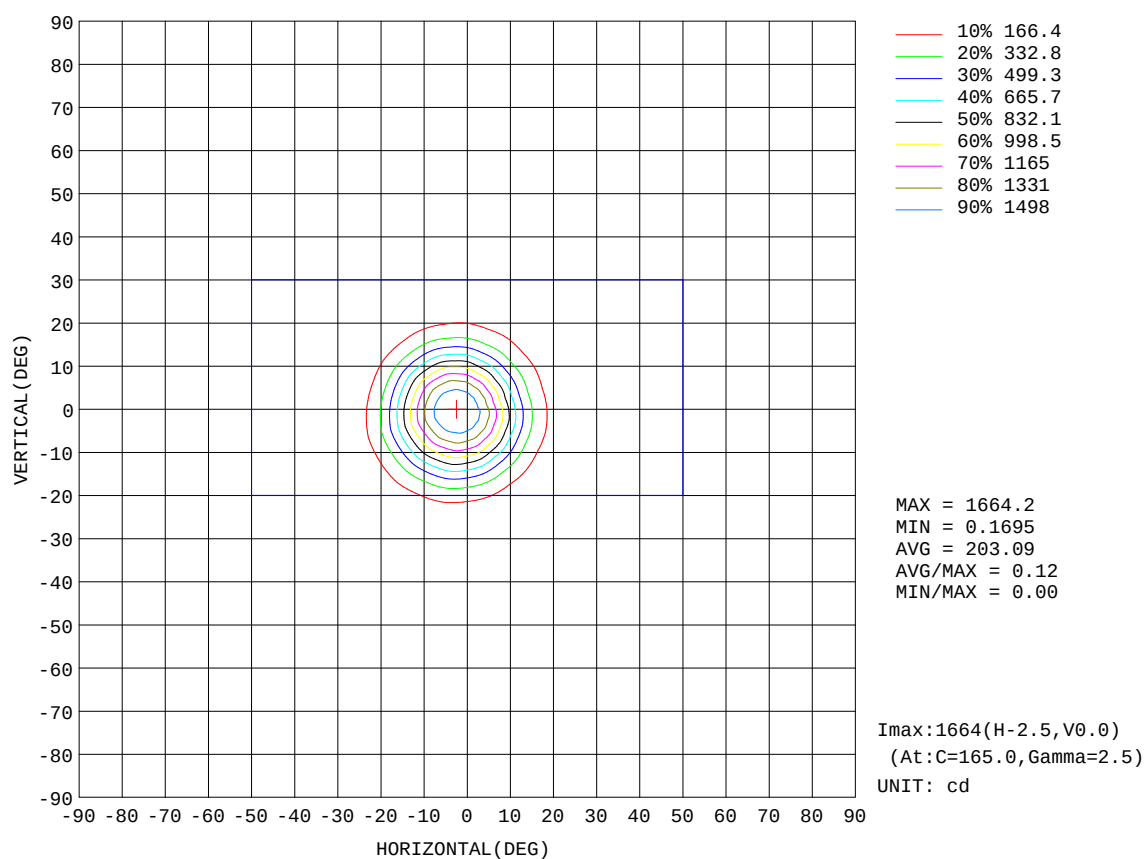
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) k(RI) × RCR = 5									
k = 0.60	90	84	81	89	84	81	88	83	80	77
0.80	97	92	88	96	91	88	95	90	87	84
1.00	101	95	92	100	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	99	103	100	97	93
2.00	109	105	102	107	104	101	104	102	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	108	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										
SHRNOM = 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-VF51RA01-5W	TYPE: indoor light	WEIGHT: 1
SPEC.: 3000K CIR90 24D	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

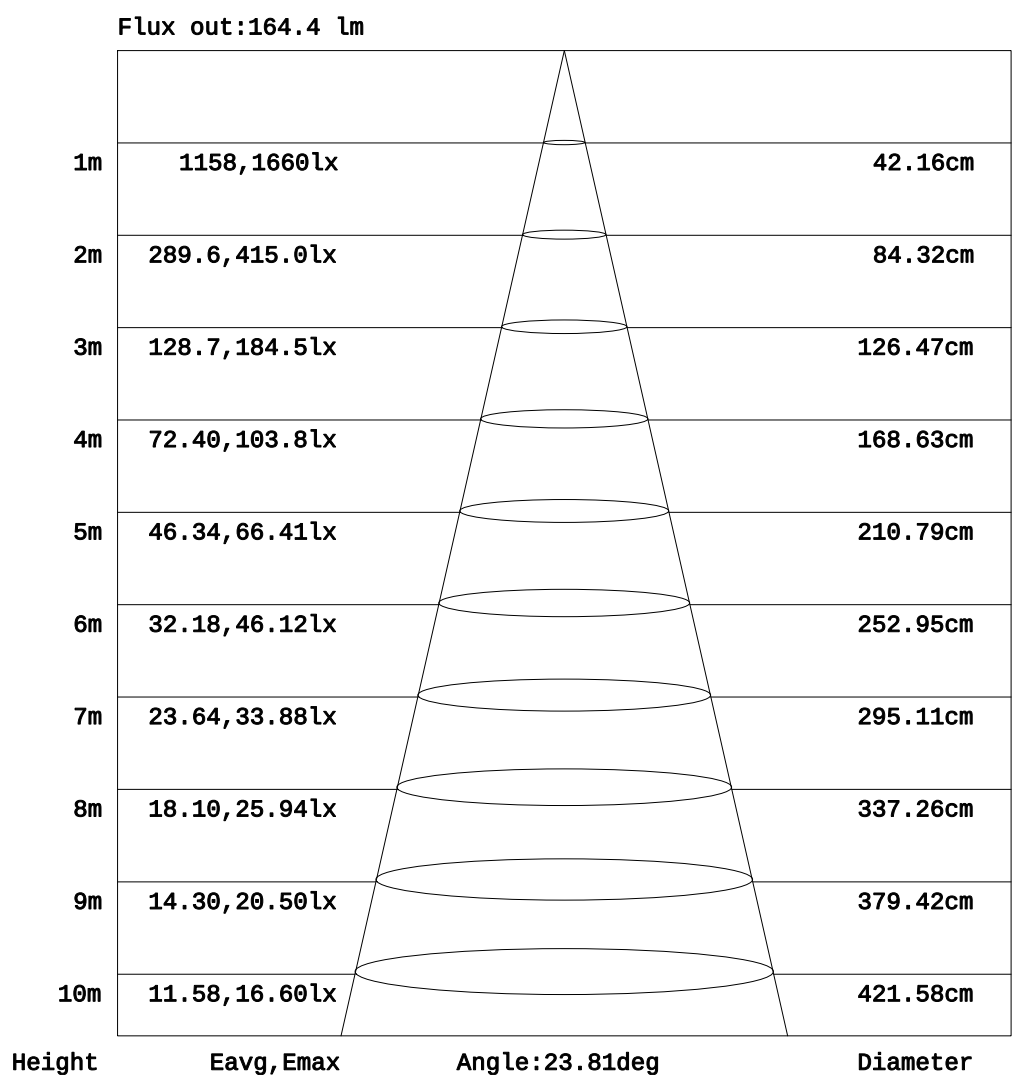


C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: MEDIUM
 Temperature: 28DEG
 Operators: LGL
 Test Date: 2021-8-16

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-VF51RA01-5W	TYPE:indoor light	WEIGHT:1
SPEC.:3000K CIR90 24D	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



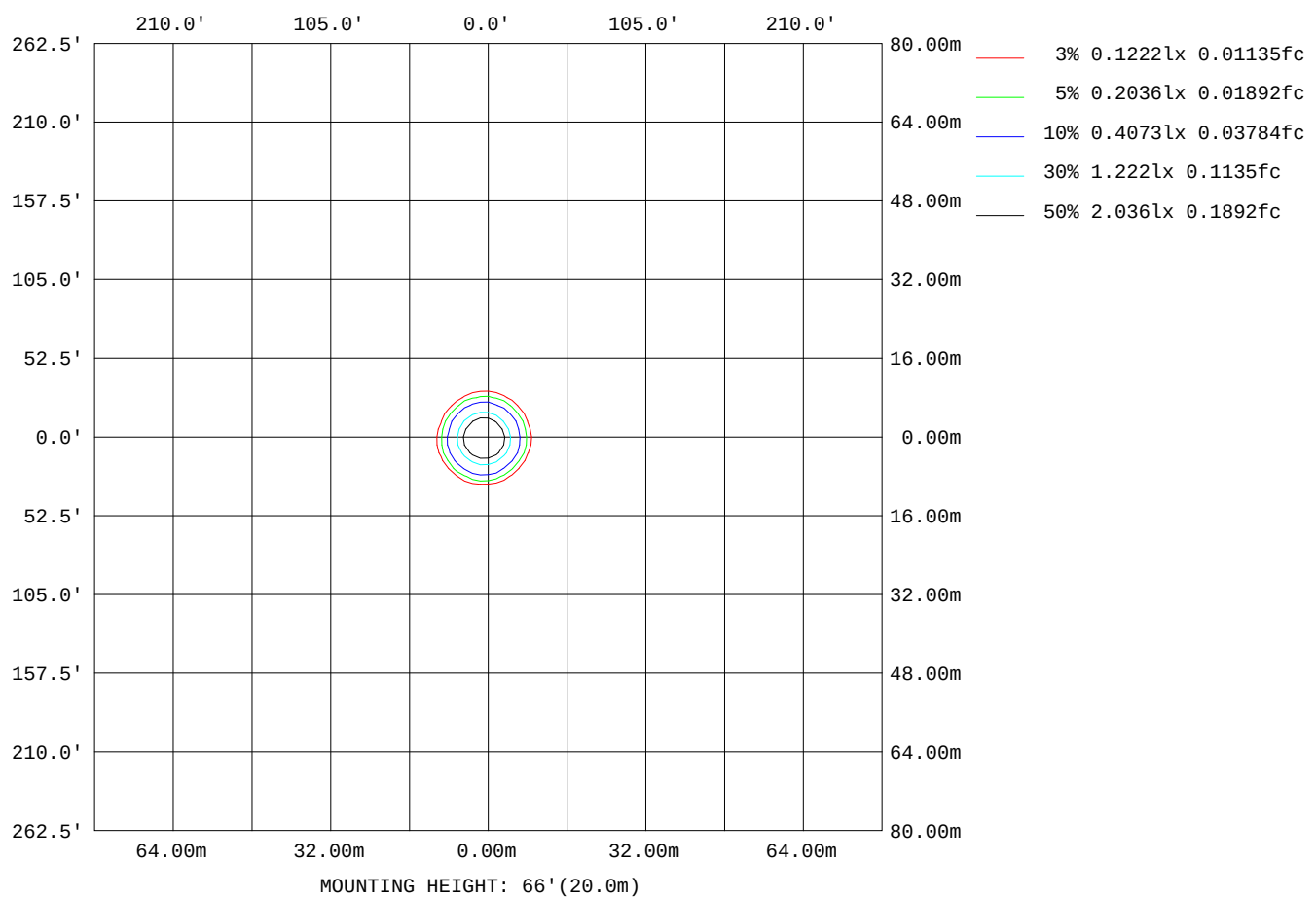
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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

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-VF51RA01-5W	TYPE: indoor light	WEIGHT: 1
SPEC.: 3000K CIR90 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: 2021-8-16

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-VF51RA01-5W	TYPE:indoor light	WEIGHT:1
SPEC.:3000K CIR90 24D	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

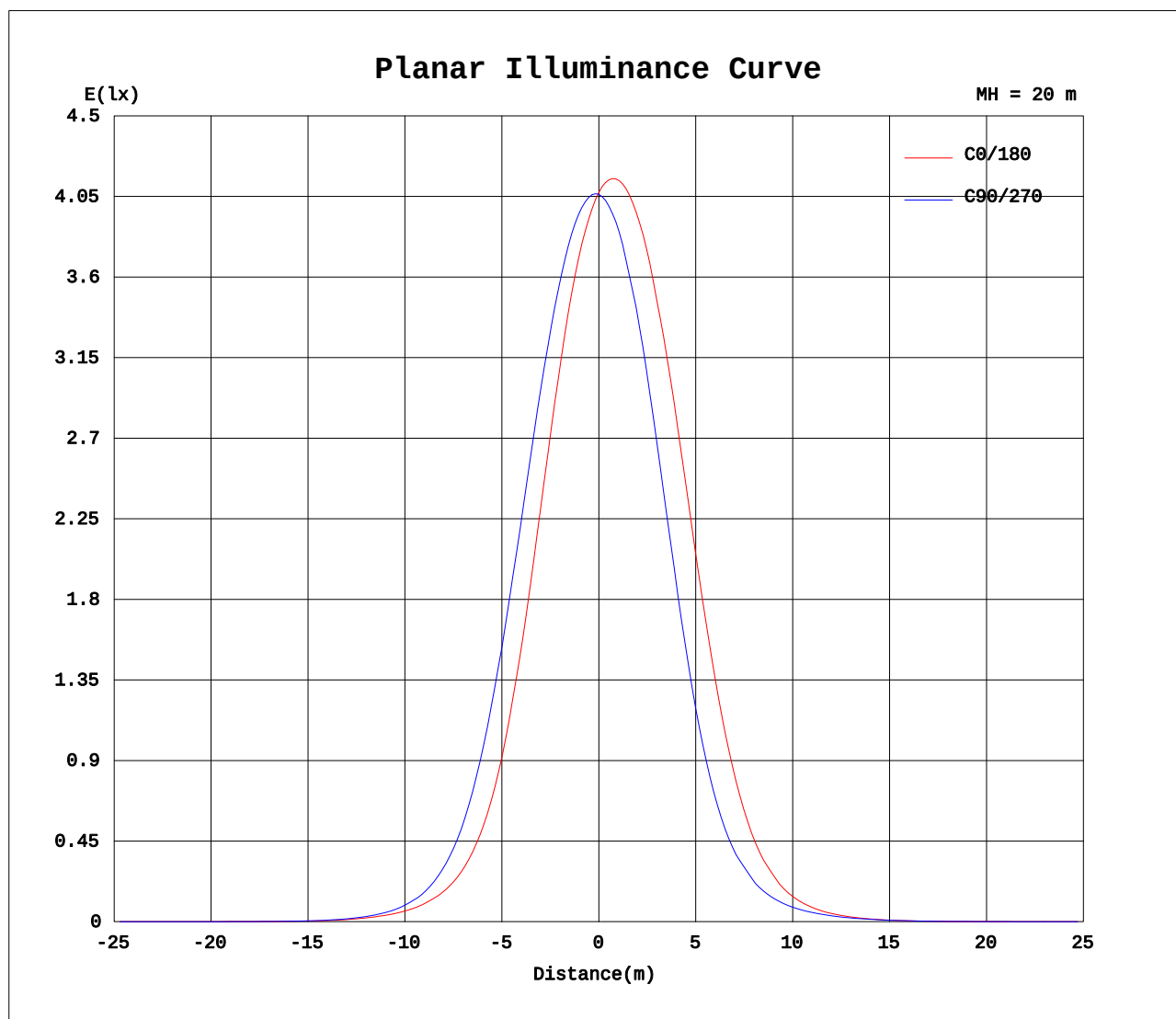
AvgL	cd/m2
L_0~180(65)av	87
L_0~180(75)av	151
L_0~180(85)av	530
L_90~270(65)av	83
L_90~270(75)av	139
L_90~270(85)av	531
L_45(65)av	87
L_45(75)av	145
L_45(85)av	490

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-VF51RA01-5W	TYPE:indoor light	WEIGHT:1
SPEC.:3000K CIR90 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	1625	1625	1625	1625	1625	1625	1625	1625	1625	1625	1625	1625	1625	1625	1625	1625	1625	1625	1625
5	1324	1353	1364	1399	1425	1467	1496	1543	1565	1603	1614	1637	1620	1598	1585	1543	1513	1460	1424
10	786	829	850	917	957	1040	1085	1167	1202	1271	1291	1342	1313	1273	1245	1159	1102	1004	944
15	333	359	374	423	460	531	584	657	694	763	785	832	794	744	711	628	570	488	441
20	121	133	131	152	164	197	225	268	292	334	347	370	339	302	280	235	211	178	165
25	45.4	46.3	45.3	49.7	54.6	63.8	72.9	88.5	97.3	114	117	129	112	97.6	90.1	77.9	72.4	65.4	60.6
30	17.1	16.8	15.9	16.9	17.8	21.0	23.6	28.6	31.6	36.6	37.4	40.1	36.6	32.8	31.7	28.9	28.4	26.3	25.3
35	5.25	4.90	4.50	4.79	5.08	6.03	6.78	8.46	9.57	11.3	11.8	12.6	11.7	10.8	10.9	10.4	10.8	10.3	10.2
40	1.87	1.70	1.54	1.56	1.63	1.86	1.96	2.42	2.74	3.21	3.35	3.62	3.41	3.20	3.26	3.26	3.61	3.52	3.48
45	0.83	0.75	0.68	0.65	0.65	0.67	0.67	0.74	0.79	0.91	0.96	1.07	1.06	1.03	1.12	1.25	1.40	1.37	1.41
50	0.46	0.38	0.34	0.31	0.30	0.29	0.31	0.33	0.36	0.39	0.44	0.48	0.49	0.51	0.53	0.59	0.63	0.65	0.66
55	0.21	0.16	0.14	0.10	0.11	0.09	0.11	0.10	0.12	0.12	0.16	0.17	0.18	0.21	0.23	0.29	0.30	0.33	0.34
60	0.06	0.05	0.05	0.05	0.05	0.05	0.06	0.05	0.05	0.05	0.06	0.06	0.05	0.07	0.06	0.10	0.09	0.12	0.11
65	0.06	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.06	0.05
70	0.06	0.06	0.04	0.06	0.05	0.06	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.04	0.05	0.05	0.05
75	0.06	0.06	0.05	0.06	0.05	0.06	0.05	0.06	0.05	0.06	0.05	0.06	0.05	0.05	0.05	0.04	0.05	0.05	0.05
80	0.06	0.07	0.06	0.07	0.06	0.07	0.06	0.06	0.06	0.06	0.05	0.06	0.05	0.05	0.05	0.04	0.05	0.05	0.06
85	0.06	0.07	0.06	0.07	0.06	0.07	0.06	0.07	0.06	0.07	0.06	0.06	0.06	0.05	0.06	0.05	0.06	0.05	0.06
90	0.07	0.07	0.06	0.07	0.06	0.07	0.06	0.07	0.06	0.06	0.06	0.07	0.07	0.06	0.07	0.06	0.07	0.06	0.07
95	0.07	0.08	0.06	0.08	0.07	0.08	0.06	0.08	0.07	0.08	0.07	0.08	0.07	0.06	0.07	0.06	0.07	0.06	0.08
100	0.07	0.08	0.06	0.08	0.07	0.08	0.06	0.08	0.07	0.08	0.07	0.08	0.07	0.06	0.08	0.06	0.08	0.06	0.08
105	0.07	0.08	0.06	0.08	0.07	0.08	0.07	0.08	0.07	0.08	0.07	0.08	0.09	0.07	0.09	0.06	0.08	0.07	0.08
110	0.07	0.09	0.07	0.09	0.07	0.09	0.08	0.09	0.08	0.09	0.08	0.09	0.09	0.07	0.09	0.07	0.09	0.07	0.09
115	0.11	0.12	0.10	0.12	0.09	0.12	0.09	0.11	0.10	0.11	0.09	0.10	0.11	0.09	0.10	0.09	0.10	0.09	0.11
120	0.22	0.22	0.20	0.20	0.17	0.18	0.16	0.16	0.14	0.15	0.13	0.15	0.15	0.13	0.15	0.13	0.16	0.16	0.19
125	0.53	0.50	0.47	0.43	0.39	0.36	0.32	0.31	0.27	0.27	0.25	0.25	0.28	0.27	0.29	0.30	0.33	0.37	0.42
130	1.13	1.07	1.04	0.94	0.88	0.78	0.72	0.65	0.61	0.57	0.55	0.53	0.59	0.61	0.64	0.69	0.75	0.83	0.89
135	2.03	1.94	1.90	1.77	1.69	1.53	1.44	1.31	1.26	1.16	1.14	1.10	1.20	1.25	1.29	1.39	1.47	1.61	1.70
140	3.07	2.98	2.94	2.79	2.70	2.52	2.42	2.26	2.18	2.06	2.04	1.97	2.09	2.17	2.22	2.35	2.44	2.61	2.72
145	4.06	3.98	3.93	3.80	3.72	3.57	3.47	3.32	3.23	3.12	3.08	3.03	3.13	3.21	3.26	3.39	3.49	3.65	3.77
150	4.77	4.72	4.68	4.60	4.55	4.45	4.37	4.27	4.19	4.11	4.07	4.04	4.13	4.17	4.23	4.32	4.41	4.53	4.61
155	5.06	5.05	5.03	5.02	5.01	5.01	4.97	4.92	4.85	4.82	4.79	4.80	4.85	4.86	4.91	4.94	5.02	5.07	5.12
160	4.90	4.88	4.94	4.96	5.05	5.10	5.15	5.14	5.12	5.14	5.12	5.16	5.17	5.15	5.16	5.15	5.18	5.22	5.19
165	4.29	4.31	4.35	4.50	4.63	4.74	4.84	4.92	4.97	4.99	4.97	5.02	5.00	4.98	4.94	4.91	4.90	4.88	4.81
170	3.53	3.57	3.63	3.71	3.87	4.03	4.17	4.30	4.35	4.41	4.46	4.50	4.46	4.44	4.40	4.29	4.21	4.12	4.00
175	2.93	2.96	3.04	3.13	3.23	3.29	3.39	3.49	3.59	3.70	3.74	3.73	3.69	3.69	3.67	3.62	3.51	3.42	3.30
180	3.06	3.06	3.07	3.11	3.08	3.08	3.11	3.09	3.09	3.15	3.10	3.06	3.06	3.07	3.08	3.12	3.09	3.08	3.11

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-VF51RA01-5W	TYPE:indoor light	WEIGHT:1
SPEC.:3000K CIR90 24D	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

Table--2

UNIT: cd

C (DEG) γ (DEG)	285	300	315	330	345														
0	1625	1625	1625	1625	1625														
5	1375	1355	1317	1313	1296														
10	857	821	767	763	745														
15	380	354	322	318	308														
20	139	135	119	120	113														
25	55.0	51.4	47.4	46.4	43.7														
30	23.0	21.9	19.8	18.9	17.1														
35	9.34	8.83	7.61	6.82	5.55														
40	3.20	3.01	2.60	2.32	1.98														
45	1.37	1.33	1.16	1.05	0.91														
50	0.68	0.67	0.63	0.56	0.50														
55	0.35	0.33	0.31	0.26	0.23														
60	0.14	0.12	0.12	0.09	0.07														
65	0.05	0.05	0.05	0.04	0.04														
70	0.05	0.05	0.05	0.05	0.04														
75	0.05	0.05	0.05	0.05	0.04														
80	0.05	0.06	0.05	0.06	0.04														
85	0.05	0.06	0.05	0.06	0.06														
90	0.06	0.07	0.06	0.07	0.06														
95	0.06	0.08	0.07	0.08	0.06														
100	0.06	0.08	0.06	0.08	0.07														
105	0.07	0.08	0.07	0.08	0.07														
110	0.07	0.09	0.08	0.09	0.08														
115	0.10	0.12	0.11	0.13	0.12														
120	0.19	0.23	0.23	0.26	0.25														
125	0.46	0.51	0.55	0.58	0.59														
130	1.01	1.07	1.16	1.19	1.24														
135	1.86	1.94	2.07	2.10	2.16														
140	2.90	2.99	3.13	3.16	3.22														
145	3.92	4.00	4.12	4.13	4.19														
150	4.72	4.76	4.82	4.83	4.87														
155	5.14	5.15	5.13	5.10	5.13														
160	5.17	5.08	5.01	4.93	4.94														
165	4.71	4.57	4.43	4.30	4.30														
170	3.85	3.73	3.60	3.54	3.53														
175	3.21	3.14	3.09	2.97	2.94														
180	3.07	3.07	3.13	3.10	3.06														

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: