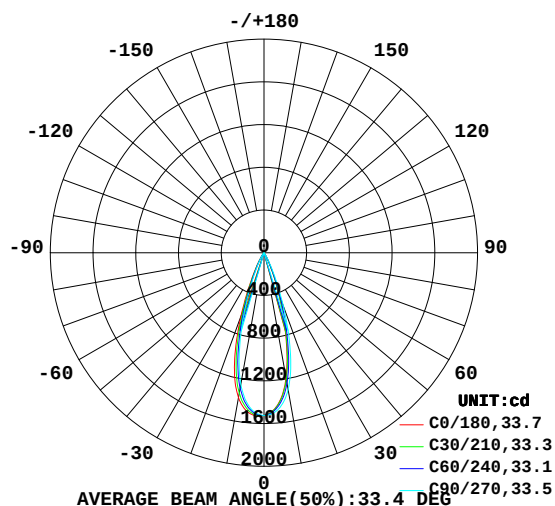


LUMINAIRE PHOTOMETRIC TEST REPORT

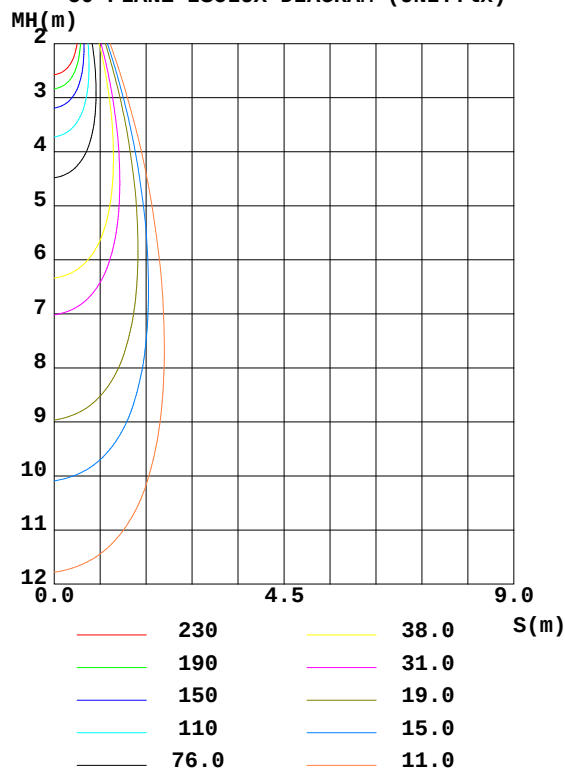
NAME: VM050-VF51RA01-8W	TYPE: indoor light	WEIGHT: 1
SPEC.: 3000K CIR90 24D	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 63.51 lm/W			
MODEL	VM050-VF51RA01-8W	Imax(cd)	1533	S/MH(C0/180)	0.57
NOMINAL POWER(W)	8	LOR(%)	100.0	S/MH(C90/270)	0.52
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	516.38	η UP, DN(C0-180)	1.2, 49.5
NOMINAL FLUX(lm)	516.384	CIE CLASS	DIRECT	η UP, DN(C180-360)	1.2, 48.1
LAMPS INSIDE	1	η up(%)	2.4	CIBSE SHR NOM	0.50
TEST VOLTAGE(V)	220	η down(%)	97.6	CIBSE SHR MAX	0.55

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:

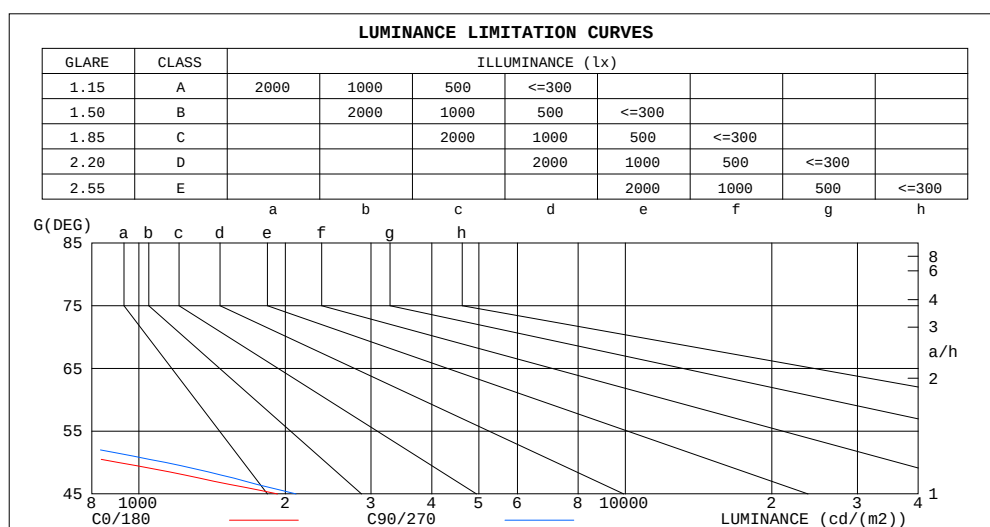
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	1190	1231	1302	1385	1379	1299	1251	1188	0- 10	134.3	134.3	26,26
20	393.7	432.0	527.6	646.4	634.3	532.1	464.8	397.6	10- 20	245.1	379.4	73.5,73.5
30	48.53	51.40	67.44	100.3	105.4	90.16	76.13	56.51	20- 30	104.3	483.8	93.7,93.7
40	4.290	4.193	4.779	7.032	10.40	9.311	7.137	4.688	30- 40	16.99	500.7	97,97
50	0.8042	0.7660	1.010	1.366	1.639	1.621	1.447	1.104	40- 50	2.244	503.0	97.4,97.4
60	0.0771	0.0728	0.0796	0.1743	0.2483	0.2850	0.2334	0.0934	50- 60	0.5143	503.5	97.5,97.5
70	0.0727	0.0794	0.0773	0.0775	0.0705	0.0816	0.0685	0.0664	60- 70	0.0871	503.6	97.5,97.5
80	0.0772	0.0948	0.0796	0.0886	0.0793	0.0728	0.0817	0.0664	70- 80	0.0819	503.7	97.5,97.5
90	0.0925	0.1058	0.0950	0.1063	0.0970	0.0815	0.0994	0.0797	80- 90	0.0954	503.8	97.6,97.6
100	0.0970	0.1147	0.0972	0.1107	0.1124	0.0948	0.1127	0.0952	90-100	0.1092	503.9	97.6,97.6
110	0.1409	0.1588	0.1303	0.1329	0.1345	0.1102	0.1393	0.1371	100-110	0.1208	504.0	97.6,97.6
120	0.5412	0.4834	0.4213	0.3567	0.3465	0.3545	0.4314	0.5482	110-120	0.2361	504.2	97.6,97.6
130	1.968	1.784	1.602	1.392	1.380	1.474	1.703	1.988	120-130	0.8375	505.1	97.8,97.8
140	4.389	4.163	3.878	3.564	3.549	3.735	4.041	4.392	130-140	2.103	507.2	98.2,98.2
150	6.771	6.615	6.420	6.121	6.141	6.324	6.597	6.793	140-150	3.271	510.4	98.8,98.8
160	7.326	7.494	7.562	7.538	7.526	7.616	7.667	7.476	150-160	3.314	513.8	99.5,99.5
170	6.183	6.307	6.634	6.753	6.795	6.742	6.590	6.248	160-170	2.041	515.8	99.9,99.9
180	5.876	5.964	5.914	6.004	5.878	5.962	5.916	6.002	170-180	0.5915	516.4	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
 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: VM050-VF51RA01-8W	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	732	769
80	322	331
75	203	216
70	154	163
65	132	132
60	112	115
55	363	458
50	906	1134
45	1928	2104

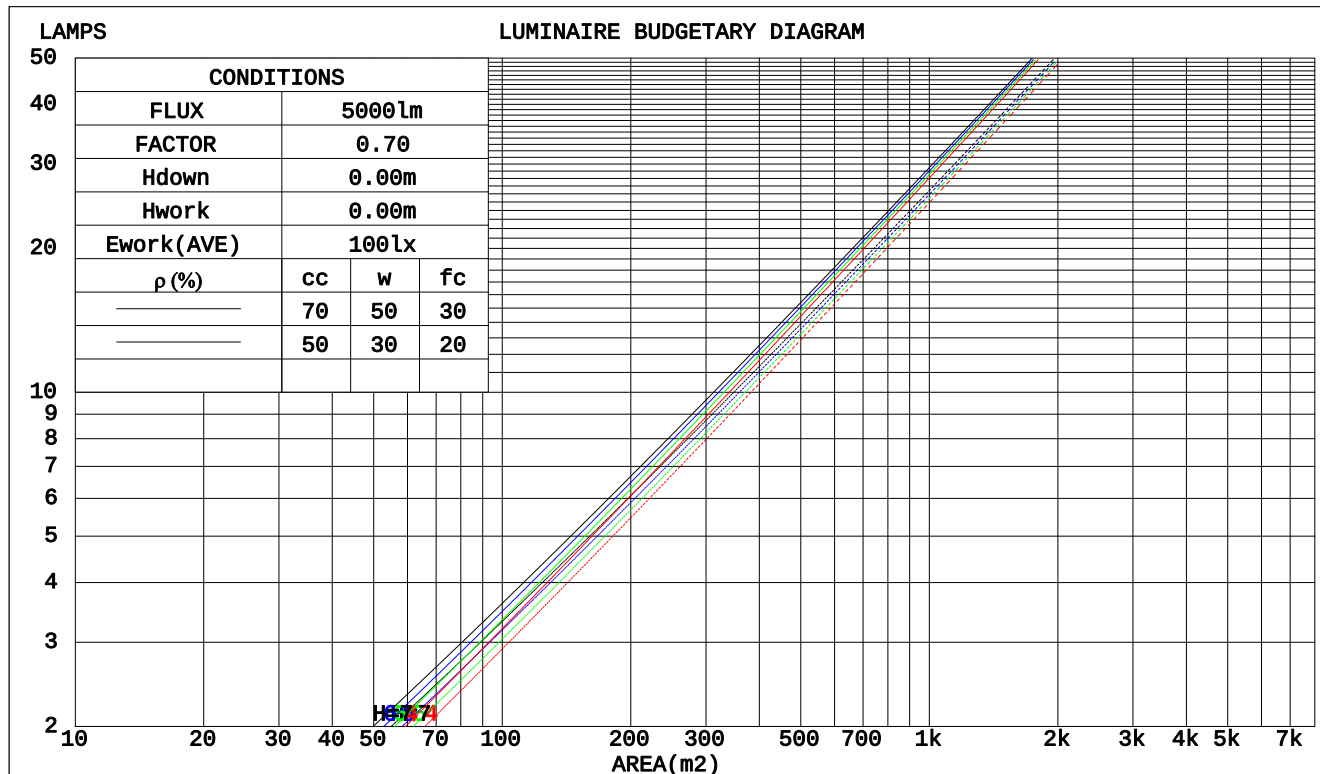
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: MEDIUM
 Temperature: 28DEG
 Operators: LGL
 Test Date: 2021-8-16

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 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	1.10	1.08	1.10	1.08	1.06	1.05	1.04	1.02	1.01	.00	.99	.97	.96	.96	.94
2.0	1.06	1.03	1.00	1.04	1.02	.99	1.01	.99	.97	.98	.96	.94	.95	.93	.92	.90
3.0	1.01	.97	.94	.00	.96	.93	.97	.94	.92	.94	.92	.90	.92	.90	.88	.87
4.0	.97	.93	.89	.96	.92	.89	.93	.90	.88	.91	.88	.86	.89	.87	.85	.84
5.0	.93	.88	.85	.92	.88	.85	.90	.86	.84	.88	.85	.83	.86	.84	.82	.81
6.0	.89	.85	.82	.88	.84	.81	.87	.83	.80	.85	.82	.80	.84	.81	.79	.78
7.0	.86	.81	.78	.85	.81	.78	.84	.80	.77	.83	.79	.77	.81	.79	.76	.75
8.0	.83	.78	.75	.82	.78	.75	.81	.77	.75	.80	.77	.74	.79	.76	.74	.73
9.0	.80	.76	.73	.80	.75	.72	.79	.75	.72	.78	.74	.72	.77	.74	.71	.70
10.0	.77	.73	.70	.77	.73	.70	.76	.72	.70	.75	.72	.70	.74	.71	.69	.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
 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: VM050-VF51RA01-8W	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 Coefficients(WEC)										
0.0																	
1.0	.145	.082	.026	.137	.078	.025	.124	.071	.023	.111	.064	.021	.099	.058	.019		
2.0	.135	.074	.023	.128	.071	.022	.117	.065	.020	.106	.060	.019	.096	.055	.017		
3.0	.126	.067	.020	.121	.065	.019	.111	.060	.018	.102	.056	.017	.093	.052	.016		
4.0	.118	.062	.018	.114	.060	.018	.106	.056	.017	.098	.052	.016	.090	.049	.015		
5.0	.112	.057	.017	.108	.055	.016	.101	.052	.015	.094	.050	.015	.088	.047	.014		
6.0	.106	.053	.015	.103	.052	.015	.096	.049	.014	.090	.047	.014	.085	.045	.013		
7.0	.101	.050	.014	.098	.049	.014	.093	.047	.013	.087	.045	.013	.082	.043	.013		
8.0	.097	.047	.013	.094	.046	.013	.089	.044	.013	.084	.043	.012	.080	.041	.012		
9.0	.093	.045	.013	.090	.044	.012	.086	.042	.012	.081	.041	.012	.077	.039	.011		
10.0	.089	.043	.012	.087	.042	.012	.083	.041	.011	.079	.039	.011	.075	.038	.011		

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	.166	.161	.151	.143	.110	.104	.099	.063	.060	.058	.020	.019	.019	
2.0	.170	.152	.136	.146	.130	.118	.100	.090	.082	.058	.053	.048	.018	.017	.016	
3.0	.156	.132	.114	.134	.114	.099	.092	.079	.069	.053	.046	.041	.017	.015	.013	
4.0	.144	.117	.097	.123	.101	.084	.085	.071	.059	.049	.041	.035	.016	.013	.012	
5.0	.134	.105	.084	.115	.091	.073	.079	.063	.052	.046	.037	.031	.015	.012	.010	
6.0	.125	.095	.074	.108	.082	.064	.074	.058	.045	.043	.034	.027	.014	.011	.009	
7.0	.118	.087	.066	.101	.076	.057	.070	.053	.041	.041	.031	.024	.013	.010	.008	
8.0	.112	.081	.059	.096	.070	.052	.066	.049	.037	.039	.029	.022	.013	.009	.007	
9.0	.106	.075	.054	.091	.065	.047	.063	.046	.034	.037	.027	.020	.012	.009	.007	
10.0	.101	.070	.050	.087	.061	.044	.061	.043	.031	.035	.025	.018	.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 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	2H	6.1	6.8	6.3	6.9	7.1	7.8	8.5	8.0	8.7	8.9
	3H	5.9	6.6	6.2	6.8	7.0	7.6	8.3	7.9	8.5	8.7
	4H	5.8	6.4	6.1	6.7	7.0	7.6	8.2	7.9	8.4	8.7
	6H	5.8	6.3	6.1	6.6	6.9	7.5	8.1	7.8	8.3	8.6
	8H	5.7	6.3	6.1	6.6	6.9	7.4	8.0	7.8	8.3	8.6
	12H	5.7	6.3	6.1	6.6	6.9	7.4	8.0	7.8	8.3	8.6
4H	2H	5.8	6.4	6.1	6.7	6.9	7.5	8.2	7.8	8.4	8.7
	3H	5.7	6.2	6.0	6.5	6.8	7.4	7.9	7.7	8.2	8.5
	4H	5.6	6.1	5.9	6.4	6.7	7.3	7.8	7.7	8.1	8.4
	6H	5.5	5.9	5.9	6.3	6.7	7.2	7.6	7.6	8.0	8.4
	8H	5.5	5.9	5.9	6.3	6.7	7.2	7.6	7.6	8.0	8.4
	12H	5.5	5.9	6.0	6.3	6.7	7.2	7.5	7.6	7.9	8.4
8H	4H	5.4	5.8	5.8	6.2	6.6	7.1	7.5	7.6	7.9	8.3
	6H	5.4	5.7	5.8	6.1	6.6	7.0	7.4	7.5	7.8	8.3
	8H	5.4	5.7	5.9	6.1	6.6	7.0	7.3	7.5	7.8	8.3
	12H	5.4	5.7	6.0	6.2	6.7	7.1	7.3	7.6	7.8	8.3
12H	4H	5.4	5.7	5.8	6.1	6.6	7.1	7.4	7.5	7.8	8.3
	6H	5.3	5.6	5.8	6.1	6.6	7.0	7.3	7.5	7.7	8.2
	8H	5.3	5.6	5.9	6.1	6.6	7.0	7.2	7.5	7.7	8.2
Variations with the observer position at spacings:											
S = 1.0H		+ 3.4 / - 6.4					+ 4.0 / - 7.1				
1.5H		+ 5.6 / - 6.3					+ 6.2 / - 7.1				
2.0H		+ 5.0 / - 2.3					+ 5.1 / - 2.8				

CIE Pub.117, 516.4 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -2.3)

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 24D	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

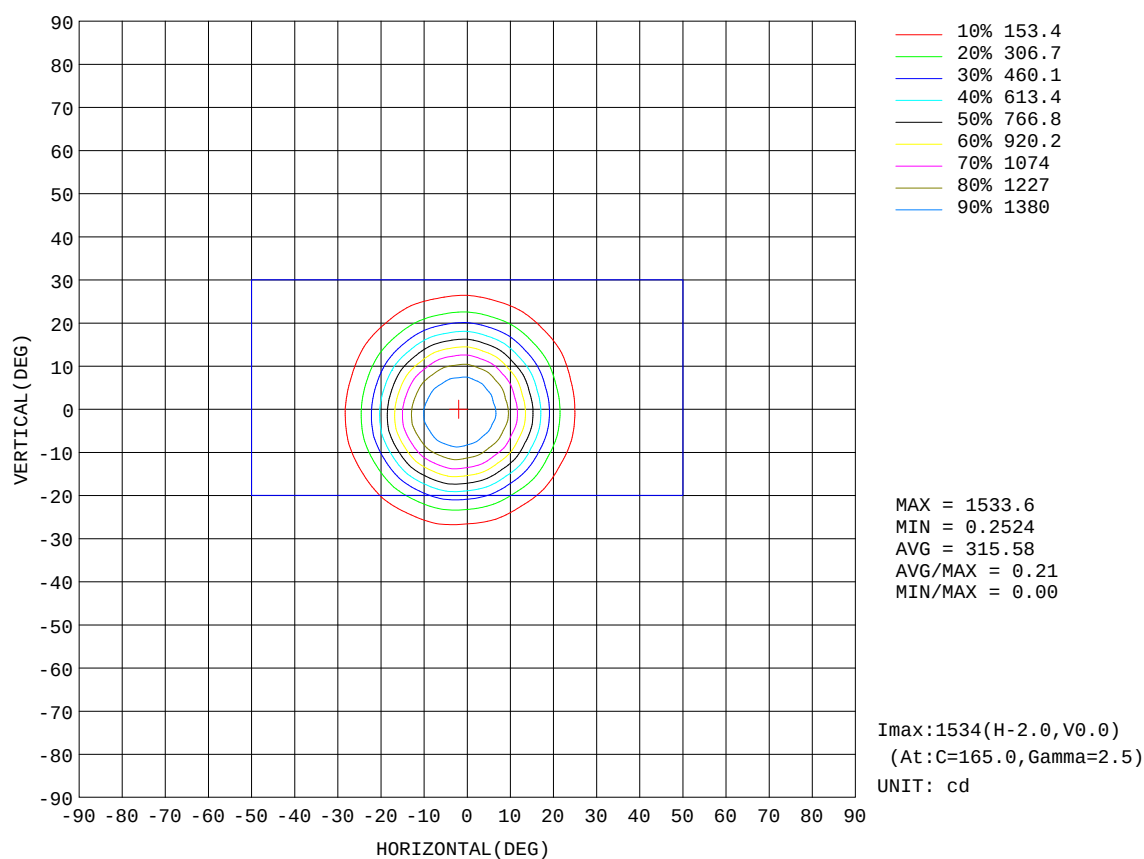
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) k(RI) × RCR = 5									
k = 0.60	90	84	81	89	84	80	88	83	80	77
0.80	97	91	88	96	91	88	95	90	87	84
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	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	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										
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 24D	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

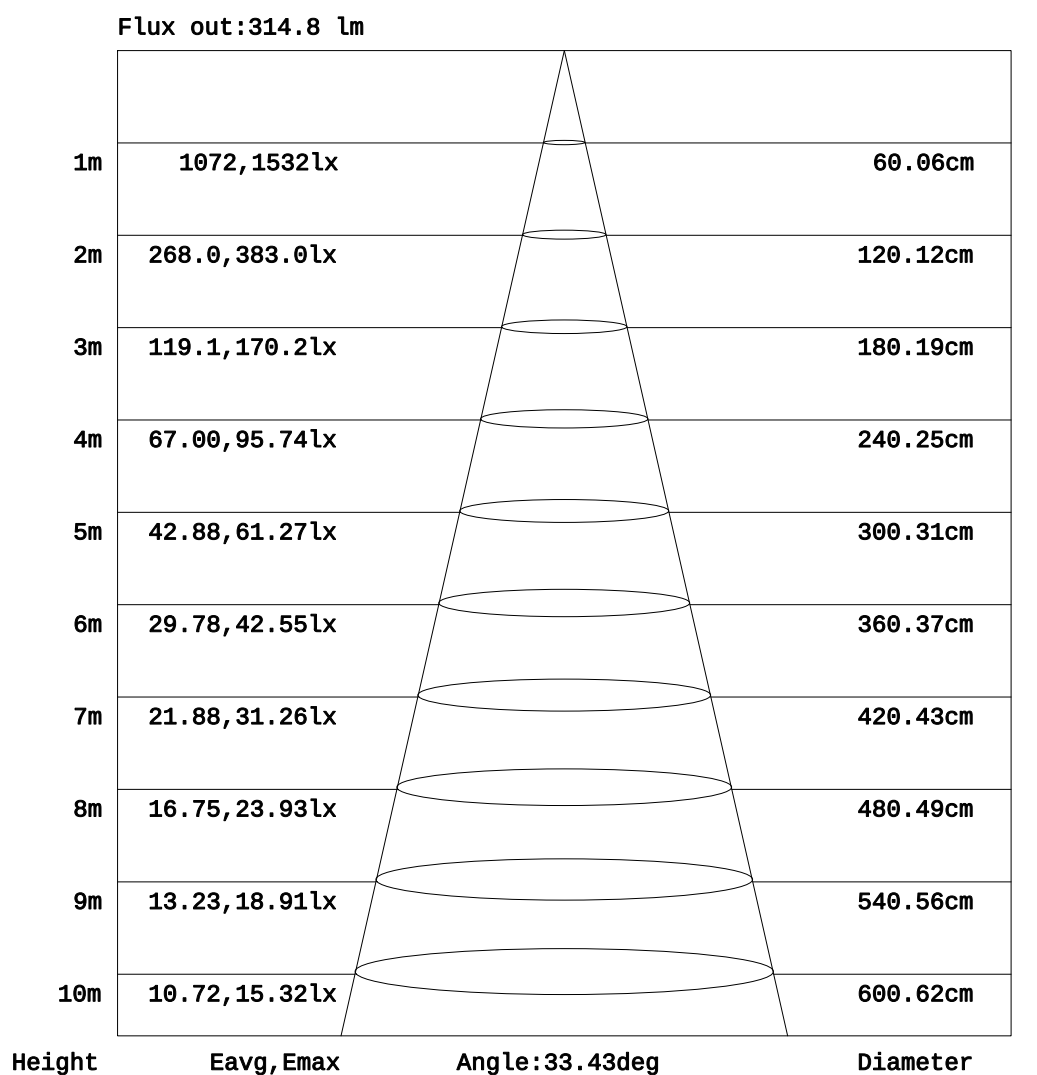


C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: MEDIUM
 Temperature: 28DEG
 Operators: LGL
 Test Date: 2021-8-16

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-VF51RA01-8W	TYPE:indoor light	WEIGHT:1
SPEC.:3000K CIR90 24D	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



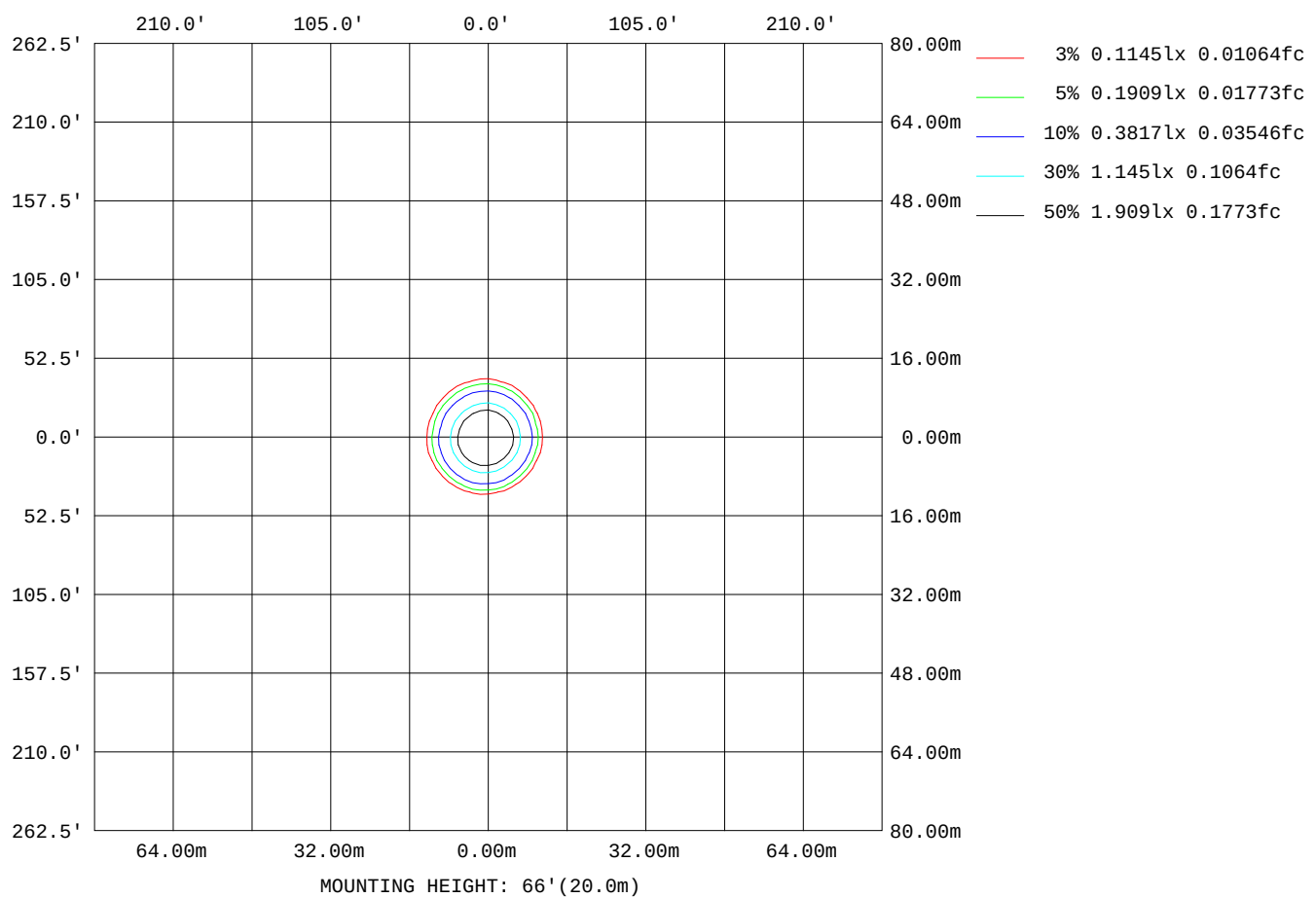
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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-VF51RA01-8W	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
 γ 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 24D	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

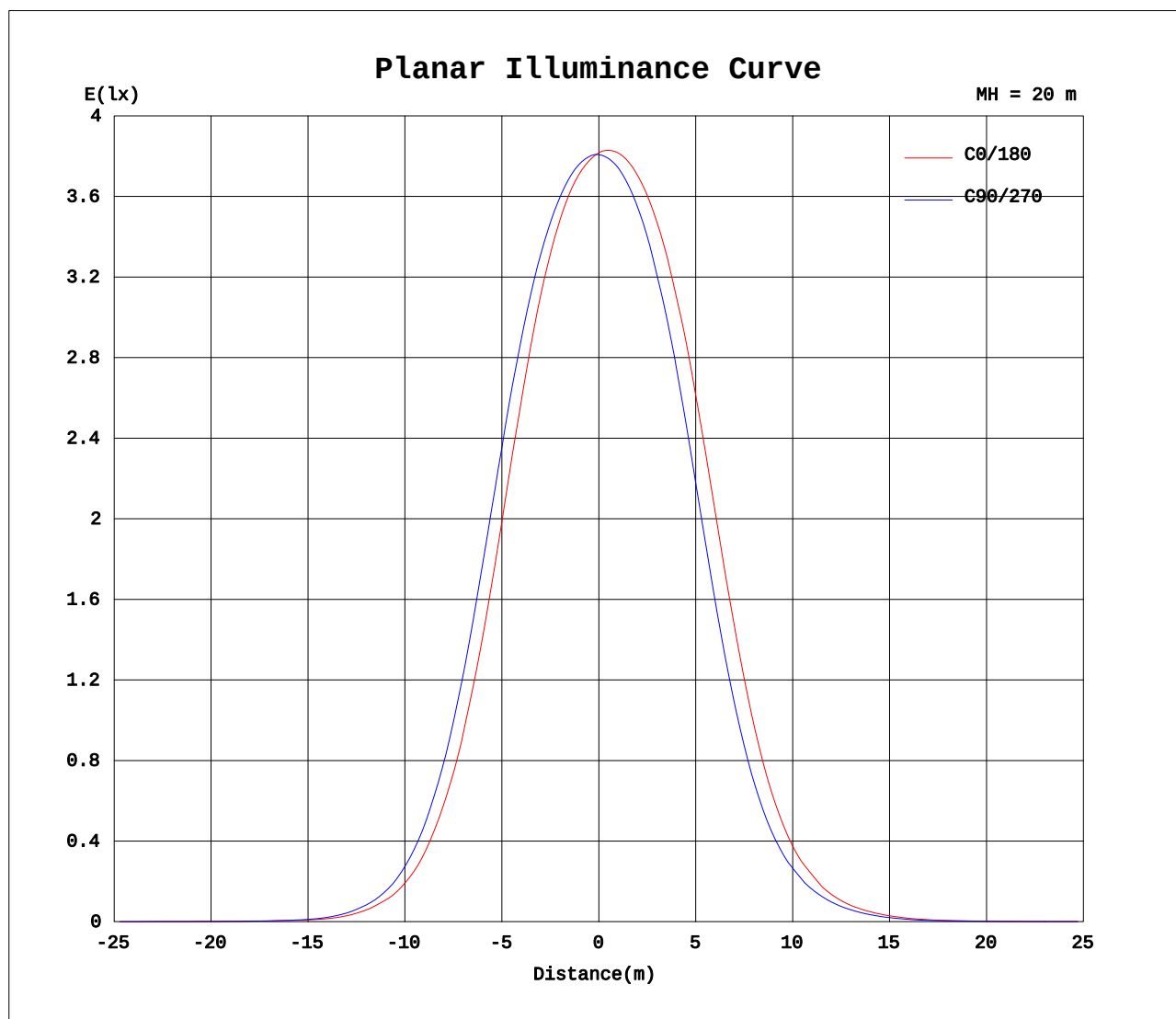
AvgL	cd/m2
L_0~180(65)av	126
L_0~180(75)av	203
L_0~180(85)av	739
L_90~270(65)av	125
L_90~270(75)av	216
L_90~270(85)av	769
L_45(65)av	137
L_45(75)av	217
L_45(85)av	705

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 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	1523	1523	1523	1523	1523	1523	1523	1523	1523	1523	1523	1523	1523	1523	1523	1523	1523	1523	1523
5	1435	1442	1440	1450	1452	1468	1477	1493	1502	1513	1514	1519	1511	1502	1496	1481	1477	1464	1460
10	1190	1207	1204	1231	1241	1280	1302	1339	1359	1385	1384	1397	1379	1351	1332	1299	1288	1258	1251
15	784	806	805	842	860	919	953	1015	1039	1082	1082	1102	1069	1025	1003	950	931	887	873
20	394	406	405	432	447	494	528	581	605	646	645	666	634	594	577	532	515	479	465
25	151	158	152	165	173	199	215	249	261	287	287	301	283	262	253	232	224	203	197
30	48.5	47.7	47.1	51.4	54.0	60.9	67.4	80.4	87.5	100	104	111	105	98.5	96.6	90.2	88.2	79.9	76.1
35	11.6	11.5	10.9	11.9	12.0	14.3	16.3	21.0	24.2	29.8	32.8	36.9	36.2	34.6	34.6	32.4	31.8	28.1	26.0
40	4.29	4.16	3.99	4.19	4.23	4.56	4.78	5.44	5.95	7.03	8.12	10.1	10.4	10.2	10.3	9.31	8.99	7.86	7.14
45	1.88	1.76	1.71	1.80	1.85	1.99	2.06	2.28	2.43	2.74	3.12	3.69	3.68	3.62	3.64	3.40	3.30	3.01	2.86
50	0.80	0.75	0.72	0.77	0.81	0.91	1.01	1.17	1.25	1.37	1.47	1.66	1.64	1.62	1.66	1.62	1.58	1.49	1.45
55	0.29	0.26	0.23	0.24	0.26	0.31	0.36	0.46	0.53	0.63	0.68	0.77	0.79	0.79	0.83	0.83	0.83	0.77	0.74
60	0.08	0.07	0.07	0.07	0.08	0.07	0.08	0.08	0.12	0.17	0.22	0.26	0.25	0.26	0.28	0.28	0.28	0.26	0.23
65	0.08	0.08	0.07	0.07	0.07	0.08	0.08	0.08	0.08	0.08	0.09	0.08	0.07	0.09	0.07	0.09	0.07	0.09	0.07
70	0.07	0.08	0.07	0.08	0.07	0.08	0.08	0.08	0.08	0.08	0.09	0.08	0.07	0.08	0.07	0.08	0.07	0.08	0.07
75	0.07	0.09	0.07	0.09	0.07	0.09	0.08	0.08	0.08	0.08	0.08	0.08	0.07	0.07	0.07	0.08	0.07	0.08	0.08
80	0.08	0.09	0.08	0.09	0.08	0.10	0.08	0.09	0.08	0.09	0.08	0.09	0.08	0.07	0.08	0.07	0.08	0.08	0.08
85	0.09	0.10	0.09	0.10	0.09	0.10	0.09	0.10	0.08	0.10	0.08	0.10	0.09	0.07	0.08	0.07	0.09	0.08	0.09
90	0.09	0.11	0.09	0.11	0.09	0.11	0.09	0.11	0.09	0.11	0.10	0.10	0.10	0.07	0.09	0.08	0.09	0.08	0.10
95	0.10	0.11	0.09	0.11	0.10	0.11	0.10	0.11	0.09	0.11	0.10	0.11	0.10	0.09	0.10	0.09	0.10	0.10	0.10
100	0.10	0.11	0.10	0.11	0.10	0.12	0.10	0.11	0.10	0.11	0.10	0.11	0.10	0.11	0.09	0.11	0.09	0.11	0.10
105	0.11	0.12	0.11	0.13	0.11	0.13	0.11	0.12	0.10	0.12	0.10	0.11	0.12	0.10	0.11	0.09	0.11	0.10	0.12
110	0.14	0.16	0.14	0.16	0.14	0.15	0.13	0.14	0.13	0.13	0.11	0.13	0.13	0.12	0.13	0.11	0.13	0.12	0.14
115	0.26	0.26	0.25	0.25	0.23	0.23	0.21	0.21	0.19	0.19	0.17	0.18	0.19	0.17	0.18	0.17	0.19	0.19	0.21
120	0.54	0.52	0.51	0.48	0.47	0.44	0.42	0.40	0.37	0.36	0.34	0.33	0.35	0.34	0.34	0.35	0.37	0.40	0.43
125	1.10	1.05	1.04	0.97	0.95	0.88	0.86	0.79	0.77	0.72	0.72	0.68	0.72	0.73	0.72	0.76	0.78	0.86	0.91
130	1.97	1.91	1.89	1.78	1.75	1.64	1.60	1.50	1.47	1.39	1.38	1.33	1.38	1.41	1.40	1.47	1.52	1.63	1.70
135	3.10	3.03	3.01	2.89	2.83	2.70	2.64	2.52	2.47	2.37	2.35	2.28	2.35	2.39	2.40	2.50	2.55	2.69	2.77
140	4.39	4.32	4.29	4.16	4.10	3.95	3.88	3.74	3.68	3.56	3.54	3.48	3.55	3.61	3.61	3.73	3.80	3.96	4.04
145	5.68	5.61	5.59	5.47	5.41	5.27	5.20	5.06	4.98	4.87	4.85	4.78	4.87	4.92	4.95	5.07	5.14	5.29	5.38
150	6.77	6.72	6.70	6.61	6.58	6.48	6.42	6.29	6.22	6.12	6.10	6.05	6.14	6.20	6.22	6.32	6.39	6.52	6.60
155	7.37	7.35	7.37	7.35	7.35	7.31	7.29	7.21	7.16	7.09	7.07	7.04	7.12	7.17	7.18	7.25	7.32	7.40	7.43
160	7.33	7.35	7.42	7.49	7.51	7.55	7.56	7.57	7.54	7.54	7.52	7.49	7.53	7.55	7.58	7.62	7.67	7.69	7.67
165	6.84	6.88	6.92	7.08	7.17	7.26	7.31	7.38	7.37	7.39	7.32	7.36	7.34	7.37	7.37	7.38	7.39	7.38	7.32
170	6.18	6.21	6.24	6.31	6.42	6.54	6.63	6.71	6.72	6.75	6.80	6.84	6.80	6.80	6.82	6.74	6.71	6.65	6.59
175	5.72	5.74	5.79	5.89	5.96	5.98	6.00	6.08	6.13	6.26	6.28	6.23	6.18	6.22	6.27	6.27	6.18	6.11	6.05
180	5.88	5.88	5.90	5.96	5.92	5.90	5.91	5.90	5.91	6.00	5.93	5.87	5.88	5.88	5.90	5.96	5.92	5.89	5.92

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 24D	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

Table--2

UNIT: cd

C (DEG) γ (DEG)	285	300	315	330	345														
0	1523	1523	1523	1523	1523														
5	1448	1445	1435	1435	1431														
10	1222	1215	1188	1190	1176														
15	832	819	782	782	763														
20	433	425	398	398	382														
25	182	178	164	163	149														
30	68.0	63.8	56.5	52.7	47.9														
35	21.9	19.3	15.3	13.5	11.4														
40	6.04	5.42	4.69	4.45	4.22														
45	2.60	2.39	2.11	2.00	1.92														
50	1.35	1.25	1.10	0.99	0.85														
55	0.64	0.56	0.45	0.38	0.31														
60	0.19	0.14	0.09	0.07	0.08														
65	0.08	0.07	0.08	0.07	0.07														
70	0.08	0.07	0.07	0.07	0.07														
75	0.07	0.08	0.07	0.07	0.07														
80	0.07	0.08	0.07	0.08	0.07														
85	0.08	0.09	0.07	0.09	0.07														
90	0.08	0.10	0.08	0.10	0.08														
95	0.09	0.11	0.09	0.11	0.09														
100	0.10	0.11	0.10	0.11	0.10														
105	0.10	0.11	0.10	0.13	0.11														
110	0.13	0.15	0.14	0.16	0.15														
115	0.22	0.25	0.26	0.27	0.27														
120	0.48	0.50	0.55	0.56	0.58														
125	1.00	1.04	1.11	1.13	1.16														
130	1.82	1.89	1.99	2.00	2.05														
135	2.93	3.00	3.11	3.14	3.19														
140	4.21	4.28	4.39	4.42	4.49														
145	5.52	5.58	5.69	5.71	5.77														
150	6.70	6.73	6.79	6.79	6.85														
155	7.47	7.45	7.44	7.41	7.42														
160	7.62	7.56	7.48	7.40	7.38														
165	7.22	7.11	6.97	6.88	6.87														
170	6.45	6.38	6.25	6.19	6.18														
175	6.00	5.98	5.93	5.80	5.74														
180	5.90	5.91	6.00	5.93	5.88														

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: