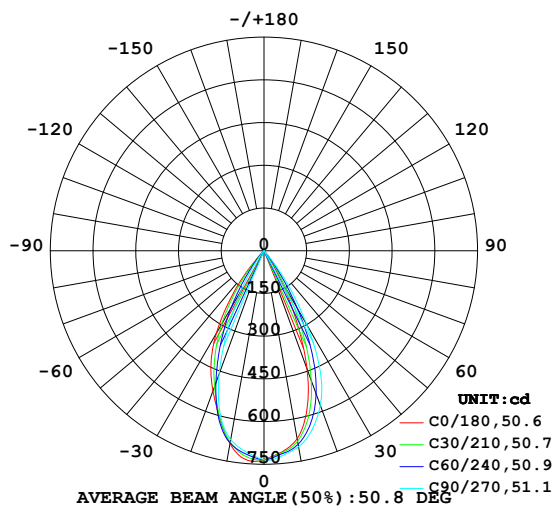


LUMINAIRE PHOTOMETRIC TEST REPORT

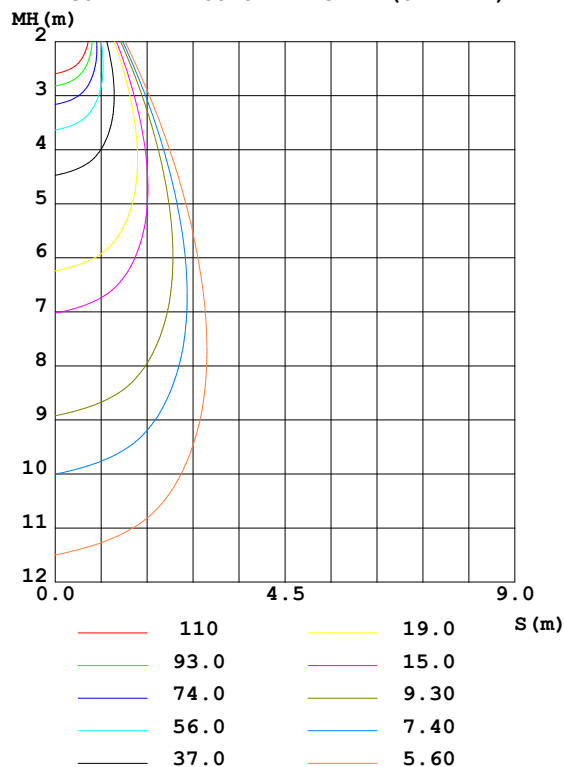
NAME: VM050-VF51RA01-8W	TYPE:indoor light	WEIGHT:1
SPEC.:3000K CIR90 50D	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 60.50 lm/W			
MODEL	VM050-VF51RA01-8W	Imax (cd)	745.3	S/MH (C0/180)	0.86
NOMINAL POWER (W)	8	LOR (%)	100.0	S/MH (C90/270)	0.71
RATED VOLTAGE (V)	230	TOTAL FLUX (lm)	493.34	η UP, DN (C0-180)	1.2, 52.6
NOMINAL FLUX (lm)	493.343	CIE CLASS	DIRECT	η UP, DN (C180-360)	1.3, 44.9
LAMPS INSIDE	1	η up (%)	2.4	CIBSE SHR NOM	0.75
TEST VOLTAGE (V)	220	η down (%)	97.6	CIBSE SHR MAX	0.80

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 GO-2000B_V1 SYSTEM V2.0.401
Humidity:65.0%
Test Distance:5.190m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

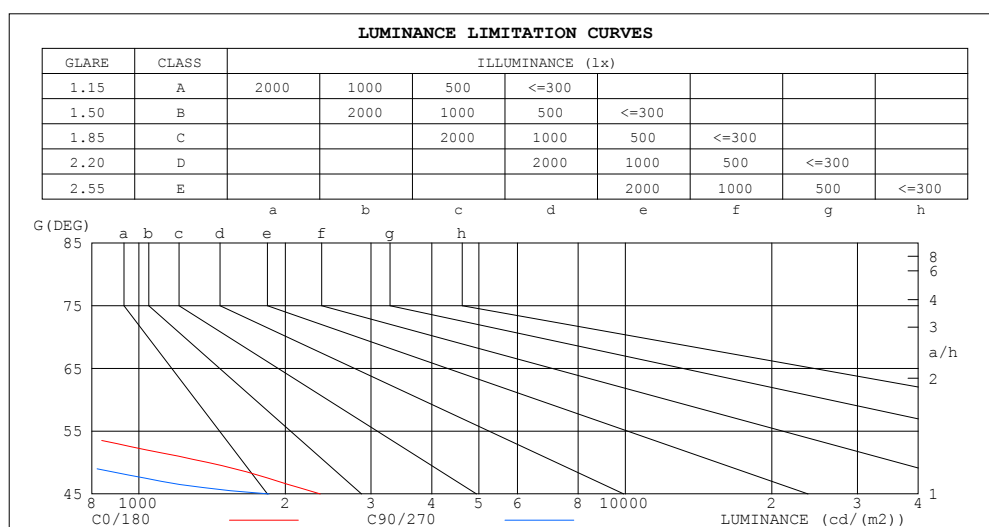
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	670.1	685.5	698.7	703.9	687.8	683.2	673.2	662.1	0- 10	67.64	67.64	13.7,13.7
20	441.9	513.5	577.6	572.2	524.2	499.2	460.2	413.7	10- 20	167.9	235.6	47.8,47.8
30	115.1	203.3	304.0	363.1	335.4	261.7	157.9	99.61	20- 30	166.7	402.3	81.5,81.5
40	6.700	10.64	32.75	75.55	80.62	44.10	15.23	7.285	30- 40	72.07	474.3	96.1,96.1
50	1.222	0.7821	0.6185	0.6966	0.8759	1.177	1.548	1.677	40- 50	6.324	480.7	97.4,97.4
60	0.1033	0.0814	0.0907	0.0910	0.1071	0.1742	0.2844	0.2829	50- 60	0.4595	481.1	97.5,97.5
70	0.0919	0.0880	0.0796	0.0800	0.0744	0.0881	0.0884	0.0778	60- 70	0.0981	481.2	97.5,97.5
80	0.0919	0.0881	0.0796	0.0844	0.0722	0.0770	0.0774	0.0778	70- 80	0.0860	481.3	97.6,97.6
90	0.0920	0.0969	0.0885	0.0933	0.0854	0.0770	0.0862	0.0778	80- 90	0.0923	481.4	97.6,97.6
100	0.0986	0.1123	0.0995	0.1045	0.1182	0.0901	0.0974	0.0978	90-100	0.1006	481.5	97.6,97.6
110	0.4000	0.3106	0.1920	0.1534	0.1621	0.1978	0.3035	0.4062	100-110	0.1662	481.7	97.6,97.6
120	1.203	0.9536	0.6890	0.4961	0.5525	0.7695	1.049	1.252	110-120	0.5134	482.2	97.7,97.7
130	2.511	2.151	1.763	1.468	1.560	1.926	2.348	2.625	120-130	1.256	483.4	98,98
140	4.140	3.721	3.278	2.962	3.084	3.530	4.005	4.285	130-140	2.164	485.6	98.4,98.4
150	5.522	5.171	4.879	4.604	4.737	5.085	5.477	5.626	140-150	2.751	488.4	99,99
160	6.189	6.101	5.952	5.785	5.789	6.001	6.243	6.242	150-160	2.602	491.0	99.5,99.5
170	6.476	6.448	6.420	6.263	6.270	6.377	6.462	6.409	160-170	1.762	492.7	99.9,99.9
180	6.666	6.758	6.705	6.724	6.677	6.750	6.712	6.722	170-180	0.6202	493.3	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 GO-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 50D	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	769	659
80	386	331
75	247	222
70	196	168
65	155	140
60	151	131
55	672	282
50	1385	694
45	2359	1852

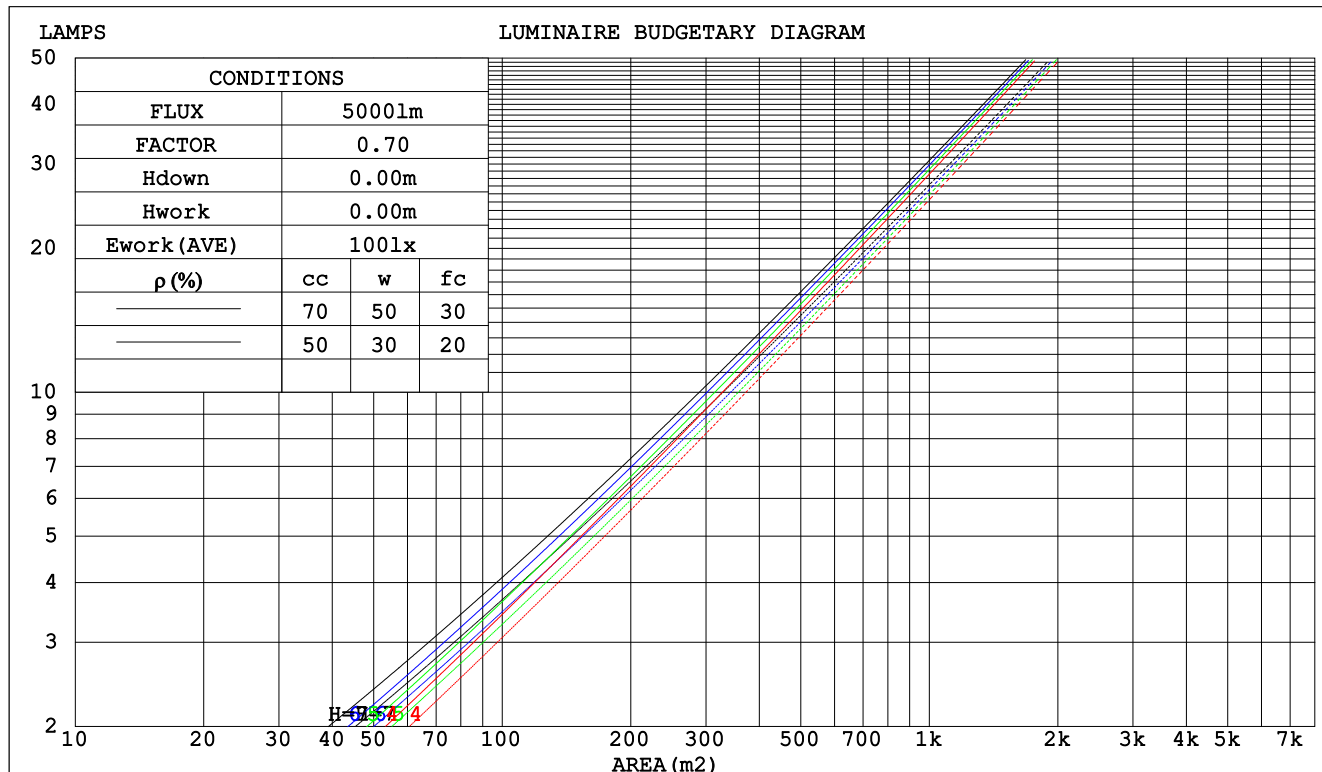
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: MEDIUM
 Temperature:28DEG
 Operators:LGL
 Test Date:2021-8-16

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-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 50D	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0														
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0														
pfc	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	1.06	1.08	1.06	1.05	1.04	1.02	1.01	.00	.99	.97	.96	.95	.94	.92														
2.0	1.04	1.00	.97	1.02	.99	.96	.98	.96	.93	.95	.93	.91	.92	.90	.89	.87														
3.0	.98	.93	.90	.96	.92	.89	.93	.90	.87	.91	.88	.85	.88	.86	.84	.82														
4.0	.92	.87	.83	.91	.86	.83	.88	.84	.81	.86	.83	.80	.84	.81	.79	.78														
5.0	.87	.82	.78	.86	.81	.77	.84	.80	.76	.82	.78	.76	.80	.77	.75	.73														
6.0	.82	.77	.73	.81	.76	.73	.80	.75	.72	.78	.74	.71	.77	.73	.71	.69														
7.0	.78	.73	.69	.77	.72	.68	.76	.71	.68	.74	.70	.67	.73	.70	.67	.66														
8.0	.74	.69	.65	.73	.68	.65	.72	.68	.64	.71	.67	.64	.70	.66	.64	.62														
9.0	.70	.65	.61	.70	.65	.61	.69	.64	.61	.68	.64	.61	.67	.63	.60	.59														
10.0	.67	.62	.58	.67	.62	.58	.66	.61	.58	.65	.61	.58	.64	.60	.57	.56														



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 GO-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 50D	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0	
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
pfc	20%			20%			20%			20%			20%			0	
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients (WEC)										
0.0																	
1.0	.166	.094	.030	.158	.090	.029	.144	.083	.026	.131	.076	.024	.120	.069	.022		
2.0	.157	.086	.026	.151	.083	.026	.139	.077	.024	.128	.072	.022	.118	.067	.021		
3.0	.149	.079	.024	.143	.077	.023	.133	.072	.022	.124	.068	.021	.115	.064	.020		
4.0	.141	.073	.022	.137	.072	.021	.128	.068	.020	.120	.064	.019	.112	.061	.019		
5.0	.135	.069	.020	.131	.067	.020	.123	.064	.019	.116	.061	.018	.109	.058	.018		
6.0	.129	.064	.018	.125	.063	.018	.118	.061	.018	.112	.058	.017	.106	.056	.017		
7.0	.123	.061	.017	.120	.060	.017	.114	.058	.017	.108	.055	.016	.103	.053	.016		
8.0	.118	.058	.016	.115	.057	.016	.110	.055	.016	.105	.053	.015	.100	.051	.015		
9.0	.113	.055	.015	.111	.054	.015	.106	.052	.015	.101	.051	.015	.097	.049	.014		
10.0	.109	.052	.014	.107	.051	.014	.102	.050	.014	.098	.049	.014	.094	.047	.014		

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	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	.189	.176	.164	.162	.151	.141	.111	.104	.098	.064	.060	.057	.020	.019	.018	
2.0	.173	.151	.133	.148	.130	.115	.102	.090	.080	.059	.052	.047	.019	.017	.015	
3.0	.160	.132	.110	.137	.114	.096	.094	.079	.067	.054	.046	.040	.017	.015	.013	
4.0	.149	.117	.093	.128	.102	.081	.088	.071	.057	.051	.041	.034	.016	.013	.011	
5.0	.140	.106	.080	.120	.091	.070	.083	.064	.049	.048	.038	.029	.015	.012	.010	
6.0	.132	.096	.070	.114	.083	.061	.079	.058	.043	.046	.034	.026	.015	.011	.009	
7.0	.126	.089	.063	.108	.077	.055	.075	.054	.039	.043	.032	.023	.014	.010	.008	
8.0	.120	.082	.056	.103	.071	.049	.072	.050	.035	.042	.030	.021	.013	.010	.007	
9.0	.115	.077	.052	.099	.067	.045	.069	.047	.032	.040	.028	.019	.013	.009	.006	
10.0	.111	.073	.048	.095	.063	.041	.066	.044	.029	.039	.026	.018	.013	.009	.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 GO-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 50D						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	14.5	15.4	14.8	15.6	15.8	20.9	21.8	21.2	22.0	22.2	
3H	14.4	15.1	14.6	15.4	15.6	20.8	21.5	21.1	21.8	22.0	
4H	14.3	15.0	14.6	15.3	15.5	20.7	21.4	21.0	21.7	21.9	
6H	14.2	14.9	14.5	15.1	15.4	20.6	21.3	20.9	21.6	21.8	
8H	14.1	14.8	14.5	15.1	15.4	20.5	21.2	20.9	21.5	21.8	
12H	14.1	14.7	14.4	15.0	15.3	20.5	21.1	20.9	21.4	21.8	
4H 2H	14.3	15.0	14.6	15.3	15.5	20.7	21.4	21.0	21.7	21.9	
3H	14.1	14.7	14.4	15.0	15.3	20.5	21.1	20.9	21.4	21.8	
4H	14.0	14.5	14.4	14.9	15.2	20.4	21.0	20.8	21.3	21.7	
6H	13.9	14.4	14.3	14.8	15.1	20.3	20.8	20.7	21.2	21.6	
8H	13.8	14.3	14.3	14.7	15.1	20.2	20.7	20.7	21.1	21.5	
12H	13.8	14.2	14.2	14.6	15.1	20.2	20.6	20.6	21.0	21.5	
8H 4H	13.8	14.3	14.3	14.7	15.1	20.2	20.7	20.7	21.1	21.5	
6H	13.7	14.1	14.2	14.5	15.0	20.1	20.5	20.6	20.9	21.4	
8H	13.7	14.0	14.1	14.5	14.9	20.1	20.4	20.6	20.9	21.4	
12H	13.6	13.9	14.1	14.4	14.9	20.0	20.3	20.5	20.8	21.3	
12H 4H	13.8	14.2	14.2	14.6	15.0	20.2	20.6	20.6	21.0	21.5	
6H	13.7	14.0	14.1	14.5	14.9	20.1	20.4	20.6	20.9	21.4	
8H	13.6	13.9	14.1	14.4	14.9	20.0	20.3	20.5	20.8	21.3	
Variations with the observer position at spacings:											
S = 1.0H	+ 4.1 / -11.4					+ 5.9 / -21.7					
1.5H	+ 6.8 / -11.0					+ 8.7 / -21.1					
2.0H	+ 5.2 / - 3.2					+ 5.2 / - 2.1					

CIE Pub.117, 493.3 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -2.5)

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 GO-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 50D	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

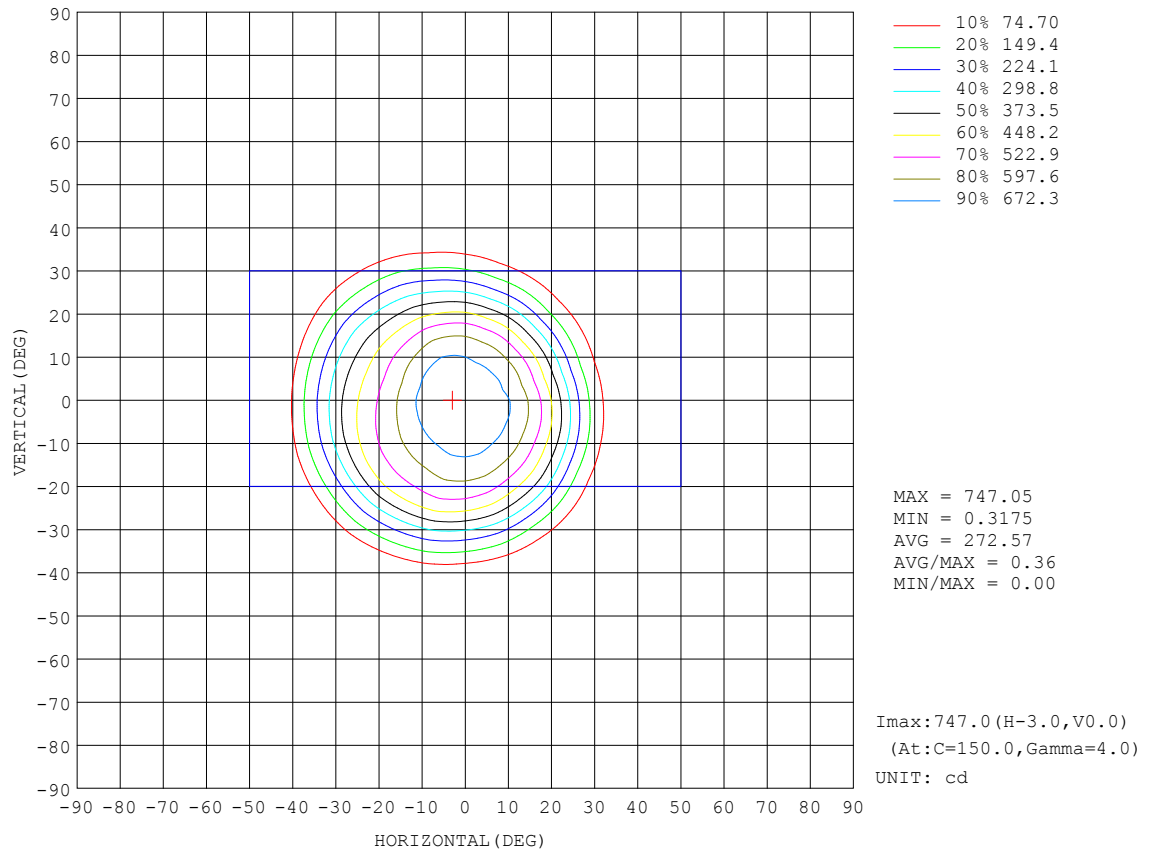
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) k(RI) x RCR = 5									
k = 0.60	89	83	80	89	83	80	88	83	80	76
0.80	96	91	87	96	90	87	94	90	87	83
1.00	100	95	92	99	94	91	97	94	91	87
1.25	104	99	96	103	98	95	100	97	94	90
1.50	106	102	99	105	101	98	103	99	97	92
2.00	109	105	102	107	104	101	104	101	99	94
2.50	110	107	104	108	105	103	105	103	101	94
3.00	112	108	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	112	111	109	108	107	106	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:2021-8-16

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System:EVERFINE GO-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 50D	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

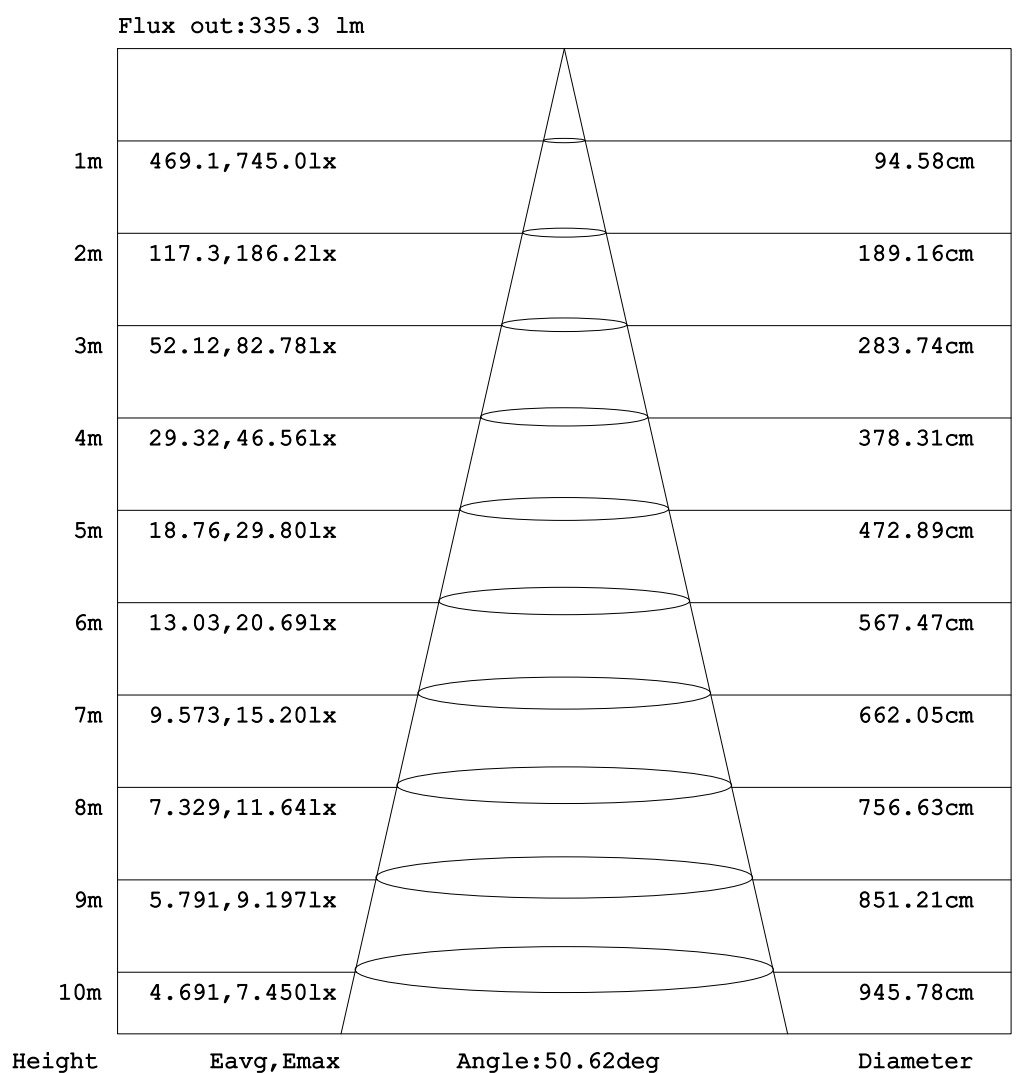


C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: MEDIUM
 Temperature:28DEG
 Operators:LGL
 Test Date:2021-8-16

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-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 50D	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



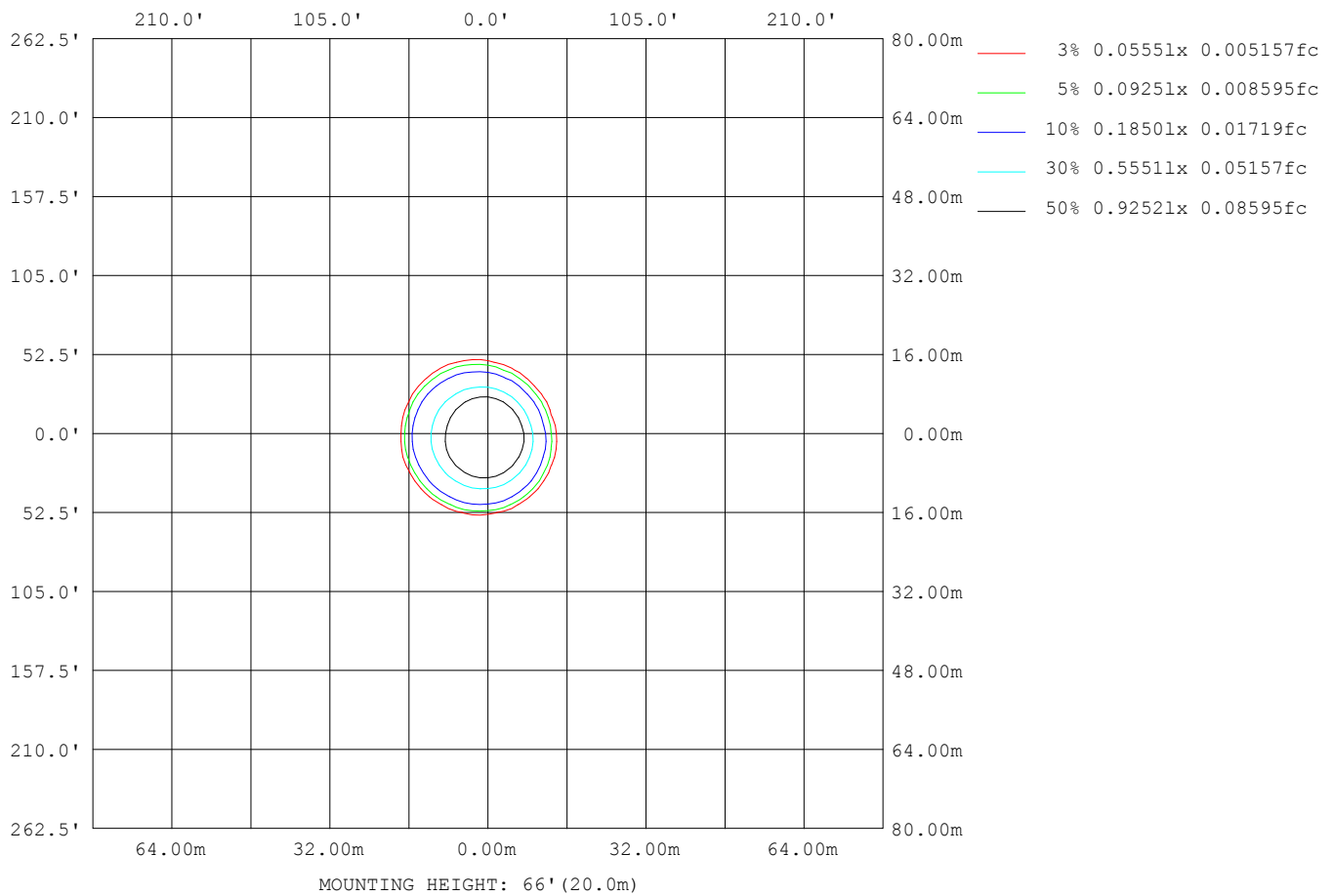
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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 GO-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 50D	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 GO-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 50D	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

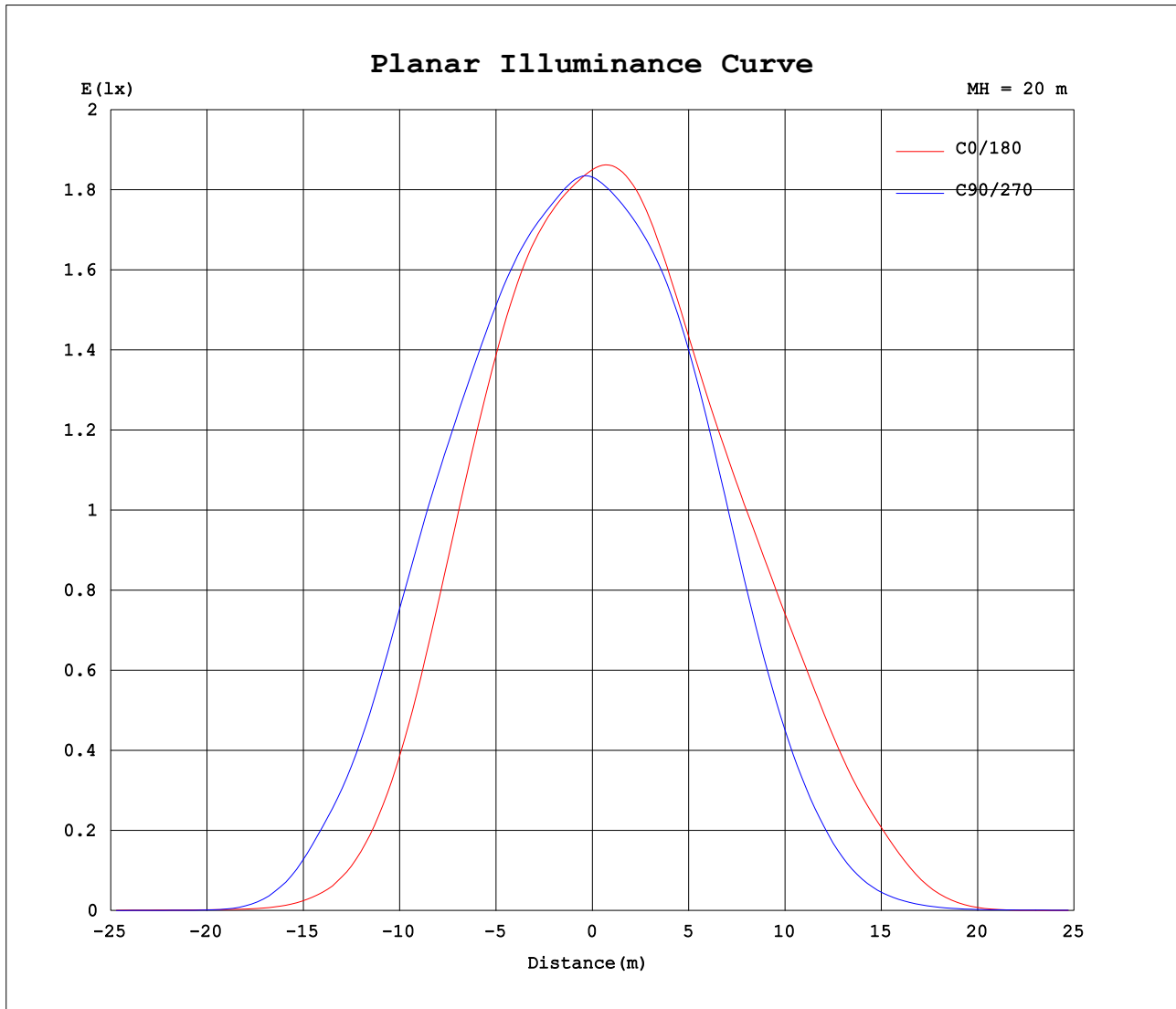
AvgL	cd/m2
L_0~180 (65) av	150
L_0~180 (75) av	223
L_0~180 (85) av	753
L_90~270 (65) av	153
L_90~270 (75) av	219
L_90~270 (85) av	687
L_45 (65) av	172
L_45 (75) av	227
L_45 (85) av	701

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 GO-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 GO-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 50D	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	734	734	734	734	734	734	734	734	734	734	734	734	734	734	734	734	734	734	734
5	709	711	712	714	716	720	723	730	737	744	744	742	736	729	725	720	717	713	710
10	670	676	679	685	690	697	699	700	698	704	703	700	688	681	683	683	686	680	673
15	581	595	603	619	630	646	651	653	643	638	630	623	606	597	603	606	612	604	594
20	442	467	485	513	535	563	578	585	575	572	566	550	524	510	508	499	494	474	460
25	267	300	329	371	402	443	468	490	489	491	484	469	441	421	408	383	361	327	300
30	115	140	163	203	237	278	304	335	347	363	360	357	335	316	297	262	230	188	158
35	33.1	41.5	52.9	73.7	96.9	129	152	179	193	209	211	217	206	190	170	136	108	76.3	57.4
40	6.70	7.28	7.84	10.6	14.3	23.3	32.7	49.0	60.8	75.5	81.1	89.2	80.6	70.5	60.6	44.1	32.0	20.7	15.2
45	2.29	2.14	1.88	1.70	1.57	1.65	1.82	2.78	4.10	7.10	8.30	10.7	8.79	7.19	6.51	4.69	4.21	3.47	3.26
50	1.22	1.07	0.89	0.78	0.68	0.66	0.62	0.64	0.64	0.70	0.74	0.84	0.88	0.95	1.07	1.18	1.31	1.41	1.55
55	0.53	0.42	0.32	0.27	0.24	0.21	0.22	0.23	0.24	0.26	0.29	0.32	0.33	0.36	0.44	0.53	0.64	0.73	0.84
60	0.10	0.09	0.09	0.08	0.09	0.08	0.09	0.08	0.10	0.09	0.12	0.11	0.11	0.13	0.14	0.17	0.20	0.24	0.28
65	0.09	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.09	0.08	0.10	0.09	0.09	0.10	0.09	0.10	0.10	0.11	0.10
70	0.09	0.09	0.08	0.09	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.07	0.09	0.08	0.09	0.08	0.10	0.09
75	0.09	0.09	0.08	0.09	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.07	0.08	0.07	0.08	0.08	0.08	0.08
80	0.09	0.09	0.08	0.09	0.08	0.09	0.08	0.09	0.08	0.08	0.08	0.08	0.07	0.08	0.08	0.08	0.08	0.08	0.08
85	0.09	0.09	0.09	0.09	0.08	0.09	0.08	0.09	0.08	0.09	0.08	0.10	0.09	0.08	0.08	0.08	0.08	0.08	0.09
90	0.09	0.10	0.09	0.10	0.09	0.10	0.09	0.10	0.08	0.09	0.08	0.10	0.09	0.08	0.09	0.08	0.09	0.08	0.09
95	0.09	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.09	0.10	0.09	0.10	0.09	0.09	0.09	0.08	0.09	0.08	0.09
100	0.10	0.11	0.10	0.11	0.10	0.11	0.10	0.10	0.10	0.10	0.10	0.10	0.12	0.10	0.10	0.09	0.09	0.08	0.10
105	0.20	0.19	0.17	0.17	0.13	0.14	0.11	0.12	0.10	0.11	0.10	0.11	0.13	0.11	0.11	0.10	0.13	0.13	0.16
110	0.40	0.38	0.35	0.31	0.26	0.23	0.19	0.18	0.15	0.15	0.13	0.15	0.16	0.16	0.18	0.20	0.23	0.27	0.30
115	0.74	0.68	0.65	0.57	0.50	0.43	0.37	0.32	0.28	0.26	0.25	0.26	0.29	0.31	0.35	0.41	0.47	0.55	0.60
120	1.20	1.13	1.06	0.95	0.87	0.76	0.69	0.59	0.55	0.50	0.49	0.49	0.55	0.62	0.67	0.77	0.85	0.97	1.05
125	1.80	1.70	1.62	1.49	1.39	1.24	1.15	1.02	0.97	0.90	0.90	0.90	0.98	1.07	1.15	1.27	1.39	1.54	1.64
130	2.51	2.40	2.31	2.15	2.04	1.87	1.76	1.61	1.58	1.47	1.46	1.46	1.56	1.67	1.77	1.93	2.06	2.23	2.35
135	3.31	3.19	3.08	2.92	2.78	2.61	2.49	2.33	2.25	2.17	2.16	2.16	2.27	2.40	2.52	2.70	2.85	3.03	3.16
140	4.14	4.01	3.89	3.72	3.59	3.41	3.28	3.13	3.10	2.96	2.97	2.97	3.08	3.22	3.35	3.53	3.68	3.88	4.00
145	4.89	4.76	4.65	4.49	4.38	4.22	4.11	3.96	3.88	3.80	3.80	3.81	3.94	4.07	4.19	4.35	4.50	4.69	4.80
150	5.52	5.40	5.32	5.17	5.08	4.96	4.88	4.75	4.67	4.60	4.61	4.62	4.74	4.84	4.94	5.08	5.22	5.38	5.48
155	5.95	5.87	5.81	5.71	5.64	5.56	5.53	5.41	5.34	5.28	5.27	5.27	5.37	5.45	5.53	5.64	5.77	5.89	5.97
160	6.19	6.16	6.13	6.10	6.05	6.01	5.95	5.88	5.82	5.79	5.75	5.72	5.79	5.86	5.92	6.00	6.09	6.18	6.24
165	6.36	6.35	6.31	6.33	6.33	6.31	6.26	6.22	6.14	6.10	6.02	6.00	6.07	6.13	6.17	6.21	6.25	6.34	6.39
170	6.48	6.47	6.46	6.45	6.46	6.45	6.42	6.37	6.30	6.26	6.24	6.20	6.27	6.32	6.37	6.38	6.40	6.43	6.46
175	6.55	6.57	6.59	6.62	6.62	6.59	6.54	6.52	6.50	6.52	6.50	6.42	6.49	6.54	6.60	6.64	6.62	6.60	6.60
180	6.67	6.69	6.71	6.76	6.72	6.71	6.70	6.69	6.68	6.72	6.65	6.60	6.68	6.69	6.72	6.75	6.73	6.71	6.71

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 GO-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 50D	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

Table--2

UNIT: cd

C (DEG) γ (DEG)	285	300	315	330	345														
0	734	734	734	734	734														
5	707	706	707	709	710														
10	665	663	662	665	665														
15	579	573	566	568	567														
20	438	429	414	416	417														
25	271	257	239	238	239														
30	129	114	99.6	97.5	97.0														
35	41.7	34.6	28.4	27.7	27.1														
40	10.8	8.86	7.28	6.90	6.24														
45	2.97	2.87	2.73	2.63	2.41														
50	1.66	1.73	1.68	1.56	1.34														
55	0.89	0.92	0.86	0.77	0.62														
60	0.32	0.33	0.28	0.22	0.13														
65	0.12	0.13	0.14	0.11	0.08														
70	0.11	0.08	0.08	0.08	0.08														
75	0.08	0.08	0.08	0.08	0.08														
80	0.08	0.08	0.08	0.08	0.08														
85	0.08	0.08	0.08	0.08	0.08														
90	0.08	0.08	0.08	0.08	0.08														
95	0.08	0.09	0.08	0.09	0.08														
100	0.09	0.11	0.10	0.12	0.10														
105	0.16	0.19	0.19	0.21	0.20														
110	0.34	0.37	0.41	0.41	0.42														
115	0.68	0.70	0.77	0.76	0.78														
120	1.15	1.19	1.25	1.25	1.26														
125	1.76	1.82	1.88	1.87	1.88														
130	2.49	2.55	2.63	2.61	2.60														
135	3.31	3.37	3.46	3.43	3.42														
140	4.15	4.21	4.29	4.26	4.25														
145	4.93	4.97	5.03	4.99	4.97														
150	5.58	5.61	5.63	5.60	5.58														
155	6.04	6.05	6.05	6.00	5.97														
160	6.28	6.28	6.24	6.19	6.16														
165	6.41	6.38	6.32	6.27	6.29														
170	6.47	6.46	6.41	6.38	6.37														
175	6.61	6.63	6.62	6.53	6.48														
180	6.69	6.68	6.72	6.65	6.59														

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 GO-2000B_V1 SYSTEM V2.0.401
Humidity:65.0%
Test Distance:5.190m [K=1.0000]
Remarks: