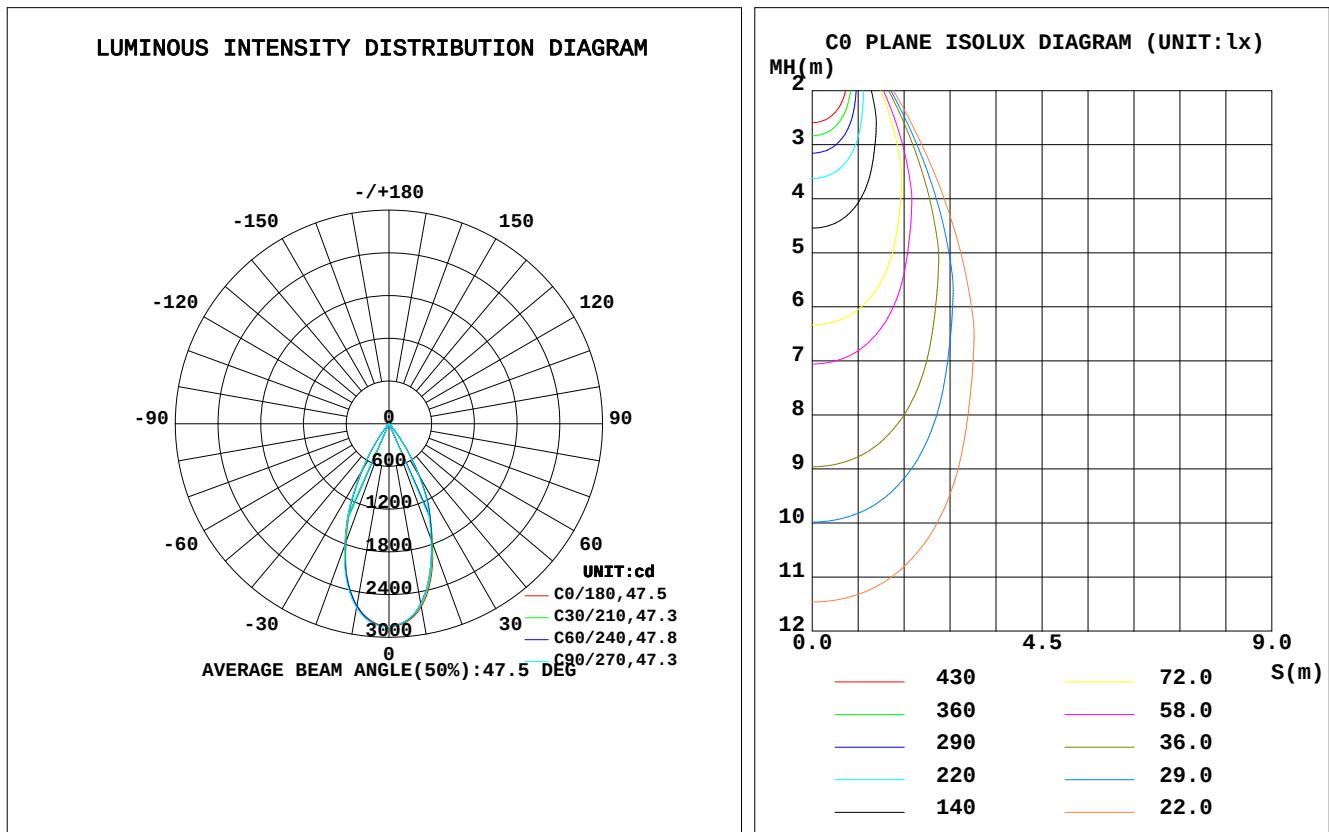


LUMINAIRE PHOTOMETRIC TEST REPORT

NAME: VM070-VF71SA01-20W	TYPE: indoor lights	WEIGHT: 1
SPEC.: 3000K-CRI90-55D	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 91.40 lm/W
MODEL	BXRE-30G1000-C-7X	Imax(cd)	2849	S/MH(C0/180)	0.74	
NOMINAL POWER(W)	20	LOR(%)	100.0	S/MH(C90/270)	0.74	
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	1791.2	η UP, DN(C0-180)	1.2, 49.2	
NOMINAL FLUX(lm)	1791.21	CIE CLASS	DIRECT	η UP, DN(C180-360)	1.4, 48.2	
LAMPS INSIDE	1	η up(%)	2.6	CIBSE SHR NOM	0.75	
TEST VOLTAGE(V)	230	η down(%)	97.4	CIBSE SHR MAX	0.80	



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: MEDIUM
 Temperature: 28DEG
 Operators: LGL
 Test Date: 2021-08-14

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:

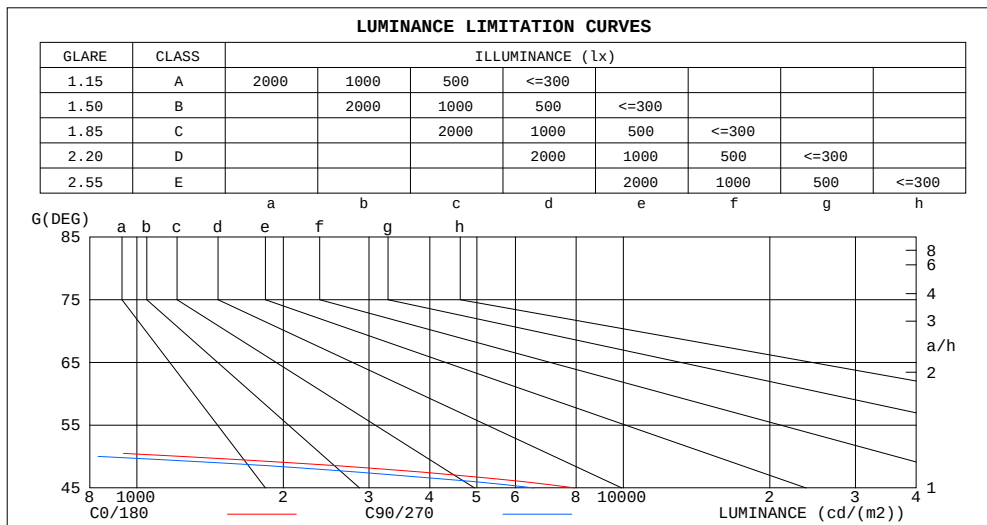
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	2608	2581	2569	2583	2593	2588	2627	2620	0- 10	260.2	260.2	14.5,14.5
20	1787	1777	1728	1745	1763	1780	1816	1793	10- 20	618.8	879.0	49.1,49.1
30	859.0	881.3	829.8	804.3	752.9	726.8	778.3	815.9	20- 30	589.1	1468	82,82
40	119.9	137.9	117.7	120.3	92.63	83.51	84.39	103.9	30- 40	243.5	1712	95.6,95.6
50	5.323	16.79	3.649	11.78	2.692	9.801	2.074	13.33	40- 50	28.97	1741	97.2,97.2
60	1.907	0.6210	0.5912	0.7169	2.158	1.116	0.7833	0.9629	50- 60	2.363	1743	97.3,97.3
70	1.587	0.3537	0.3152	0.4277	1.483	0.3695	0.2611	0.3903	60- 70	0.9716	1744	97.4,97.4
80	0.3724	0.3405	0.3187	0.3498	0.3396	0.2768	0.2723	0.2718	70- 80	0.4172	1744	97.4,97.4
90	0.3595	0.3560	0.3409	0.3744	0.3148	0.3073	0.2966	0.3116	80- 90	0.3511	1745	97.4,97.4
100	0.7703	0.6108	0.3829	0.6195	0.7601	0.4413	0.3720	0.4430	90-100	0.5062	1745	97.4,97.4
110	1.342	1.110	0.9239	1.206	1.484	1.189	1.017	1.106	100-110	0.8971	1746	97.5,97.5
120	3.704	3.023	3.051	3.391	4.039	3.911	3.260	3.539	110-120	2.267	1748	97.6,97.6
130	8.609	7.039	7.267	7.364	9.044	7.598	11.67	7.424	120-130	5.562	1754	97.9,97.9
140	12.95	12.88	13.10	13.25	13.58	13.41	13.22	13.05	130-140	8.939	1763	98.4,98.4
150	18.43	18.33	18.63	18.76	19.01	18.90	18.72	18.55	140-150	10.27	1773	99,99
160	21.54	21.40	21.85	21.77	22.09	22.41	22.39	22.39	150-160	9.464	1783	99.5,99.5
170	22.60	22.33	22.66	22.90	23.21	23.20	23.59	22.71	160-170	6.380	1789	99.9,99.9
180	23.67	23.85	23.55	23.96	23.73	23.81	23.59	23.93	170-180	2.212	1791	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:2021-08-14

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: VM070-VF71SA01-20W	TYPE:indoor lights	WEIGHT:1
SPEC.:3000K-CRI90-55D	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



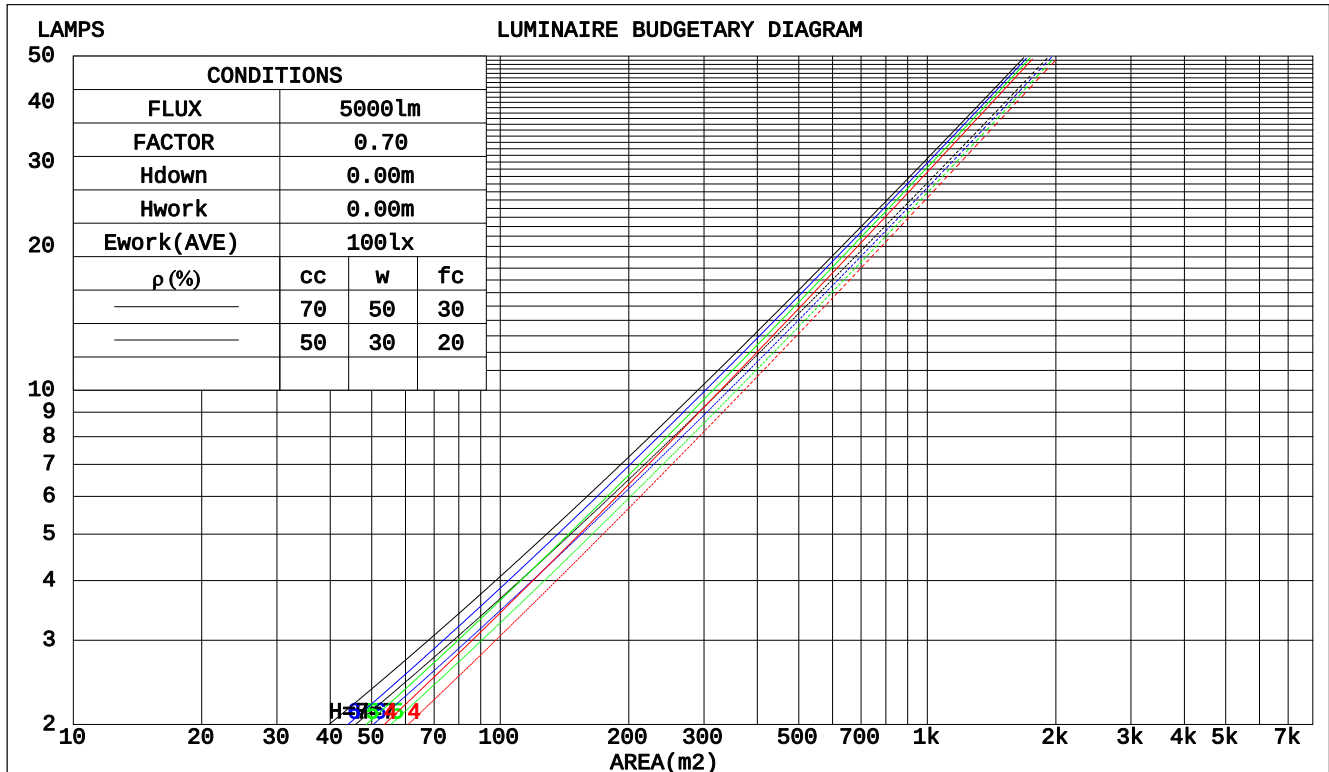
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: MEDIUM
 Temperature:28DEG
 Operators:LGL
 Test Date:2021-08-14

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: VM070-VF71SA01-20W	TYPE:indoor lights	WEIGHT:1
SPEC.:3000K-CRI90-55D	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	1.04	1.04	1.04	.00	.00	.00	.97
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	.89	.85	.82	.86	.83	.80	.84	.81	.79	.78
5.0	.87	.82	.78	.86	.81	.78	.84	.80	.77	.82	.79	.76	.80	.77	.75	.73
6.0	.83	.77	.73	.82	.77	.73	.80	.76	.72	.78	.75	.72	.77	.74	.71	.70
7.0	.78	.73	.69	.78	.72	.69	.76	.72	.68	.75	.71	.68	.73	.70	.67	.66
8.0	.74	.69	.65	.74	.69	.65	.73	.68	.65	.71	.67	.64	.70	.67	.64	.63
9.0	.71	.66	.62	.70	.65	.62	.69	.65	.61	.68	.64	.61	.67	.64	.61	.60
10.0	.68	.62	.59	.67	.62	.59	.66	.62	.58	.65	.61	.58	.64	.61	.58	.57



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: MEDIUM
 Temperature:28DEG
 Operators:LGL
 Test Date:2021-08-14

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: VM070-VF71SA01-20W	TYPE:indoor lights	WEIGHT:1
SPEC.:3000K-CRI90-55D	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	.165	.094	.030	.157	.090	.029	.143	.082	.026	.131	.075	.024	.119	.069	.022		
2.0	.156	.086	.026	.150	.082	.025	.138	.077	.024	.127	.071	.022	.117	.066	.021		
3.0	.148	.079	.024	.142	.076	.023	.132	.072	.022	.123	.067	.021	.114	.063	.020		
4.0	.140	.073	.021	.136	.071	.021	.127	.067	.020	.119	.064	.019	.111	.060	.018		
5.0	.134	.068	.020	.130	.067	.019	.122	.063	.019	.115	.061	.018	.108	.058	.017		
6.0	.128	.064	.018	.124	.063	.018	.117	.060	.017	.111	.058	.017	.105	.055	.016		
7.0	.122	.060	.017	.119	.059	.017	.113	.057	.016	.107	.055	.016	.102	.053	.016		
8.0	.117	.057	.016	.114	.056	.016	.109	.054	.015	.103	.052	.015	.099	.051	.015		
9.0	.112	.054	.015	.110	.053	.015	.105	.052	.015	.100	.050	.014	.096	.049	.014		
10.0	.108	.052	.014	.105	.051	.014	.101	.049	.014	.097	.048	.014	.093	.047	.013		

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	.210	.210	.210	.180	.180	.180	.123	.123	.123	.070	.070	.070	.023	.023	.023	
1.0	.190	.177	.166	.163	.152	.143	.111	.105	.099	.064	.061	.057	.021	.020	.019	
2.0	.174	.153	.135	.149	.131	.116	.102	.091	.081	.059	.053	.048	.019	.017	.015	
3.0	.161	.134	.112	.138	.115	.097	.095	.080	.068	.055	.047	.040	.018	.015	.013	
4.0	.150	.119	.095	.129	.103	.082	.089	.072	.058	.051	.042	.034	.017	.014	.011	
5.0	.141	.107	.082	.121	.093	.071	.084	.065	.050	.048	.038	.030	.016	.012	.010	
6.0	.134	.098	.072	.115	.085	.063	.079	.059	.044	.046	.035	.026	.015	.011	.009	
7.0	.127	.090	.064	.109	.078	.056	.075	.055	.040	.044	.032	.024	.014	.011	.008	
8.0	.121	.084	.058	.104	.073	.051	.072	.051	.036	.042	.030	.021	.014	.010	.007	
9.0	.116	.078	.053	.100	.068	.046	.069	.048	.033	.040	.028	.020	.013	.009	.006	
10.0	.111	.074	.049	.096	.064	.043	.067	.045	.030	.039	.027	.018	.013	.009	.006	

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:28DEG
Operators:LGL
Test Date:2021-08-14

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: VM070-VF71SA01-20W						TYPE:indoor lights			WEIGHT:1		
SPEC.:3000K-CRI90-55D						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		17.2	18.1	17.5	18.3	18.5	17.1	17.9	17.3	18.1	18.3
3H		17.0	17.8	17.3	18.0	18.3	16.9	17.7	17.2	17.9	18.1
4H		17.0	17.7	17.3	17.9	18.2	16.8	17.5	17.1	17.8	18.1
6H		16.9	17.5	17.2	17.8	18.1	16.7	17.4	17.1	17.7	18.0
8H		16.8	17.5	17.2	17.8	18.1	16.7	17.3	17.0	17.6	17.9
12H		16.8	17.4	17.1	17.7	18.0	16.6	17.2	17.0	17.6	17.9
4H 2H		17.0	17.7	17.3	17.9	18.2	16.8	17.5	17.1	17.8	18.1
3H		16.8	17.4	17.1	17.7	18.0	16.6	17.2	17.0	17.6	17.9
4H		16.7	17.2	17.1	17.6	17.9	16.5	17.1	16.9	17.4	17.8
6H		16.6	17.1	17.0	17.4	17.8	16.4	16.9	16.8	17.3	17.7
8H		16.5	17.0	16.9	17.4	17.8	16.4	16.8	16.8	17.2	17.6
12H		16.5	16.9	16.9	17.3	17.7	16.3	16.7	16.8	17.1	17.6
8H 4H		16.5	17.0	16.9	17.4	17.8	16.4	16.8	16.8	17.2	17.6
6H		16.4	16.8	16.9	17.2	17.7	16.2	16.6	16.7	17.1	17.5
8H		16.3	16.7	16.8	17.1	17.6	16.2	16.5	16.7	17.0	17.5
12H		16.3	16.6	16.8	17.0	17.6	16.1	16.4	16.6	16.9	17.4
12H 4H		16.4	16.9	16.9	17.3	17.7	16.3	16.7	16.8	17.1	17.6
6H		16.3	16.7	16.8	17.1	17.6	16.2	16.5	16.7	17.0	17.5
8H		16.3	16.6	16.8	17.0	17.6	16.1	16.4	16.6	16.9	17.4
Variations with the observer position at spacings:											
S = 1.0H		+ 4.1 / -18.7					+ 4.0 / -20.6				
1.5H		+ 6.7 / -18.7					+ 6.7 / -19.7				
2.0H		+ 7.4 / - 9.9					+ 7.2 / - 9.5				

CIE Pub.117, 1791 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 2.0$)

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:28DEG
Operators:LGL
Test Date:2021-08-14

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: VM070-VF71SA01-20W	TYPE:indoor lights	WEIGHT:1
SPEC.:3000K-CRI90-55D	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

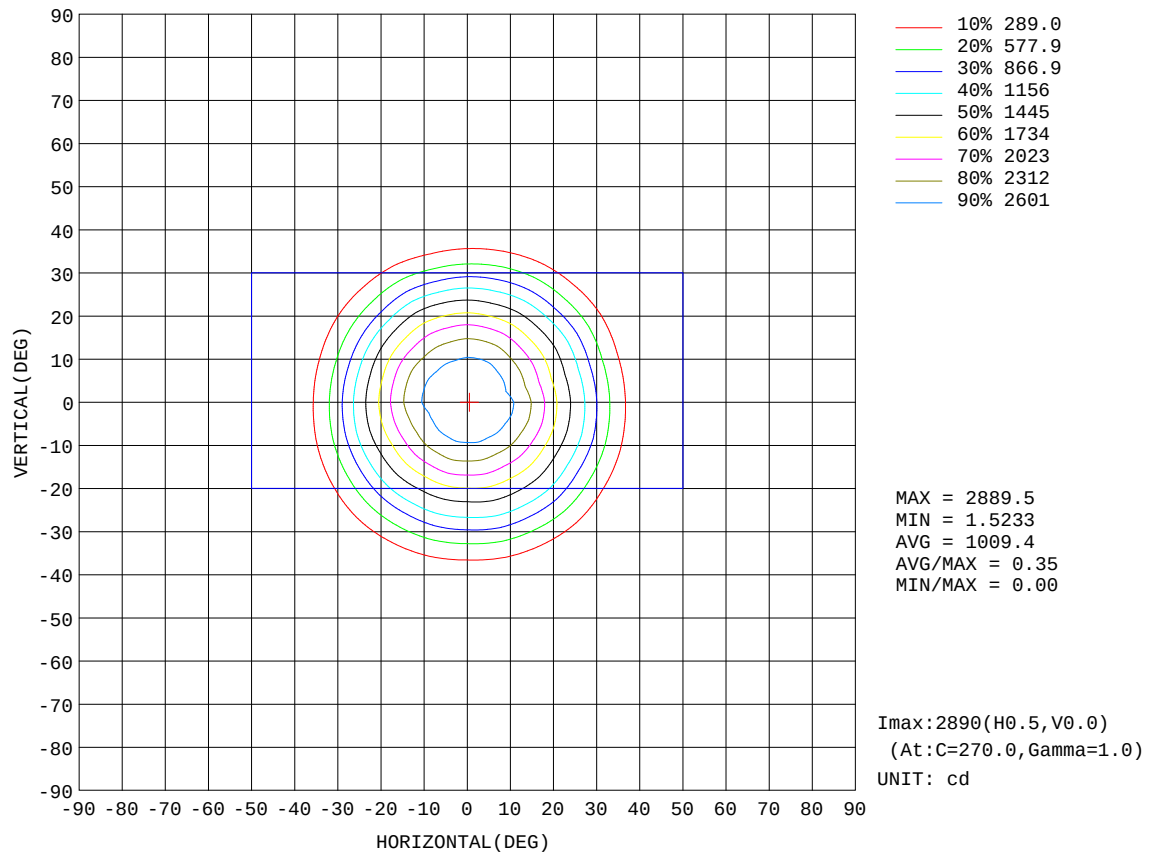
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	89	83	79	88	83	79	87	82	79	76
0.80	96	91	87	95	90	87	94	89	86	83
1.00	100	95	91	99	94	91	97	94	90	86
1.25	104	99	96	102	98	95	100	97	94	90
1.50	106	102	99	105	101	98	102	99	97	92
2.00	109	105	102	107	103	101	104	101	99	93
2.50	110	106	104	108	105	103	105	102	100	94
3.00	112	108	106	110	107	104	106	104	102	95
4.00	114	111	109	111	109	107	107	105	104	96
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:2021-08-14

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: VM070-VF71SA01-20W	TYPE: indoor lights	WEIGHT: 1
SPEC.: 3000K-CRI90-55D	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

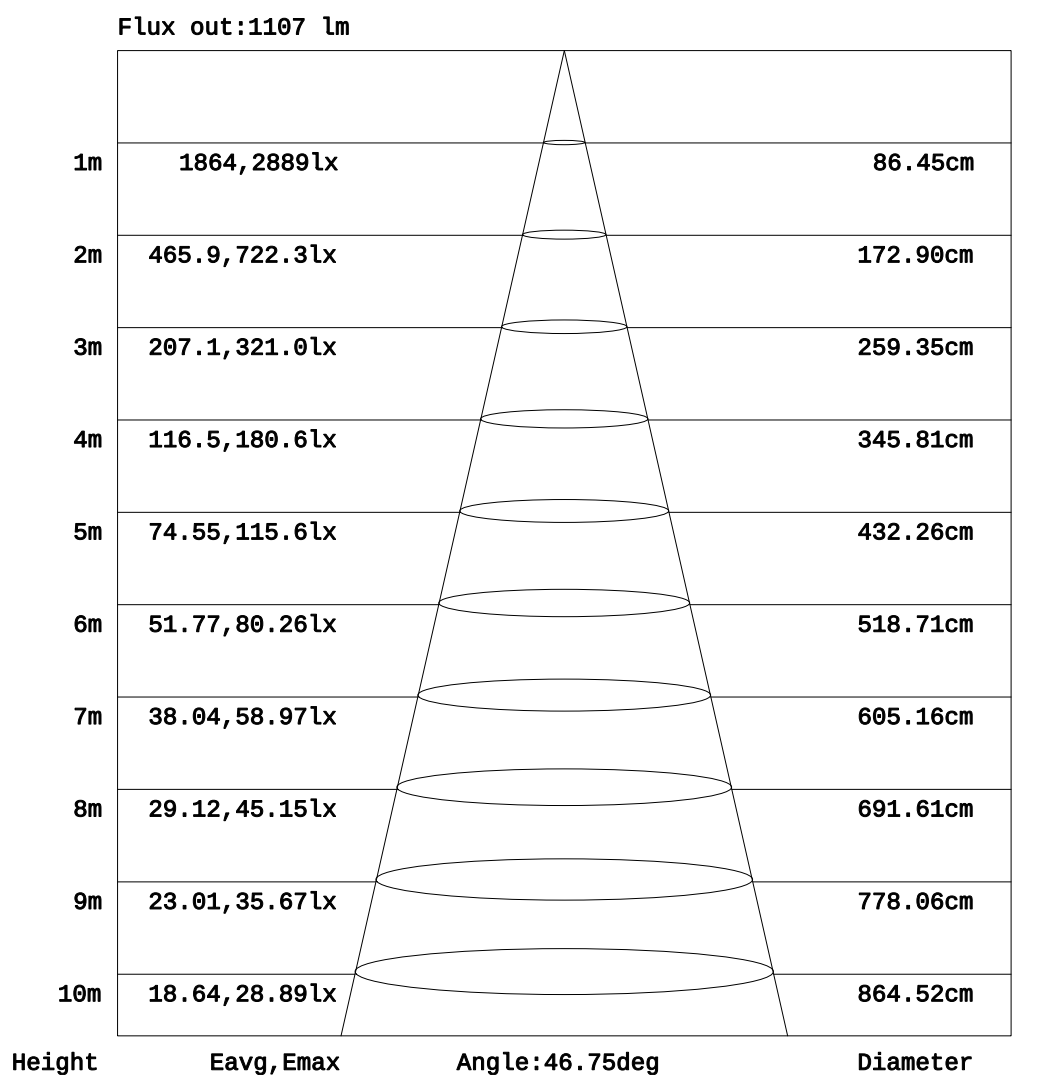


C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: MEDIUM
 Temperature: 28DEG
 Operators: LGL
 Test Date: 2021-08-14

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: VM070-VF71SA01-20W	TYPE:indoor lights	WEIGHT:1
SPEC.:3000K-CRI90-55D	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



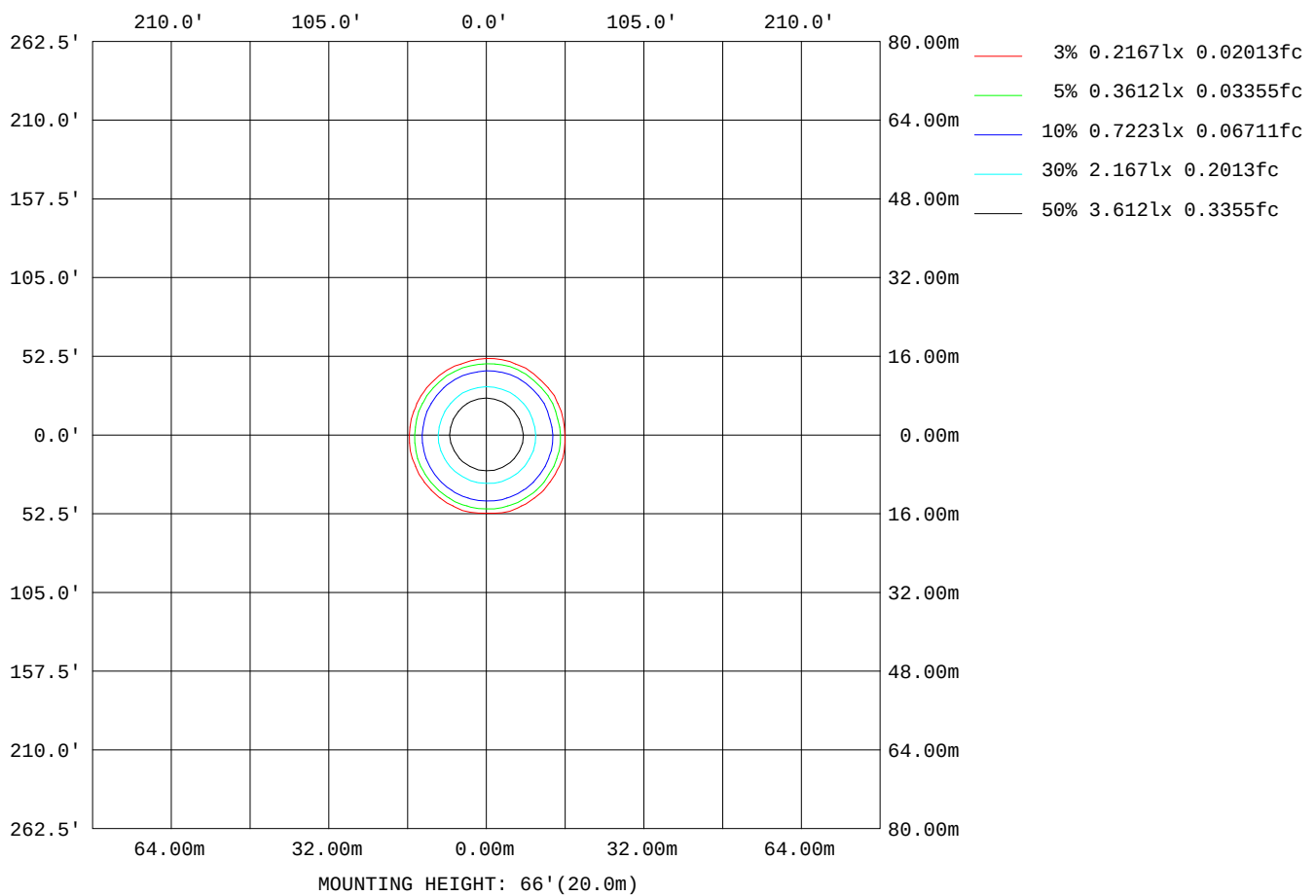
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:28DEG
Operators:LGL
Test Date:2021-08-14

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: VM070-VF71SA01-20W	TYPE: indoor lights	WEIGHT: 1
SPEC.: 3000K-CRI90-55D	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature: 28DEG
Operators: LGL
Test Date: 2021-08-14

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: VM070-VF71SA01-20W	TYPE:indoor lights	WEIGHT:1
SPEC.:3000K-CRI90-55D	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

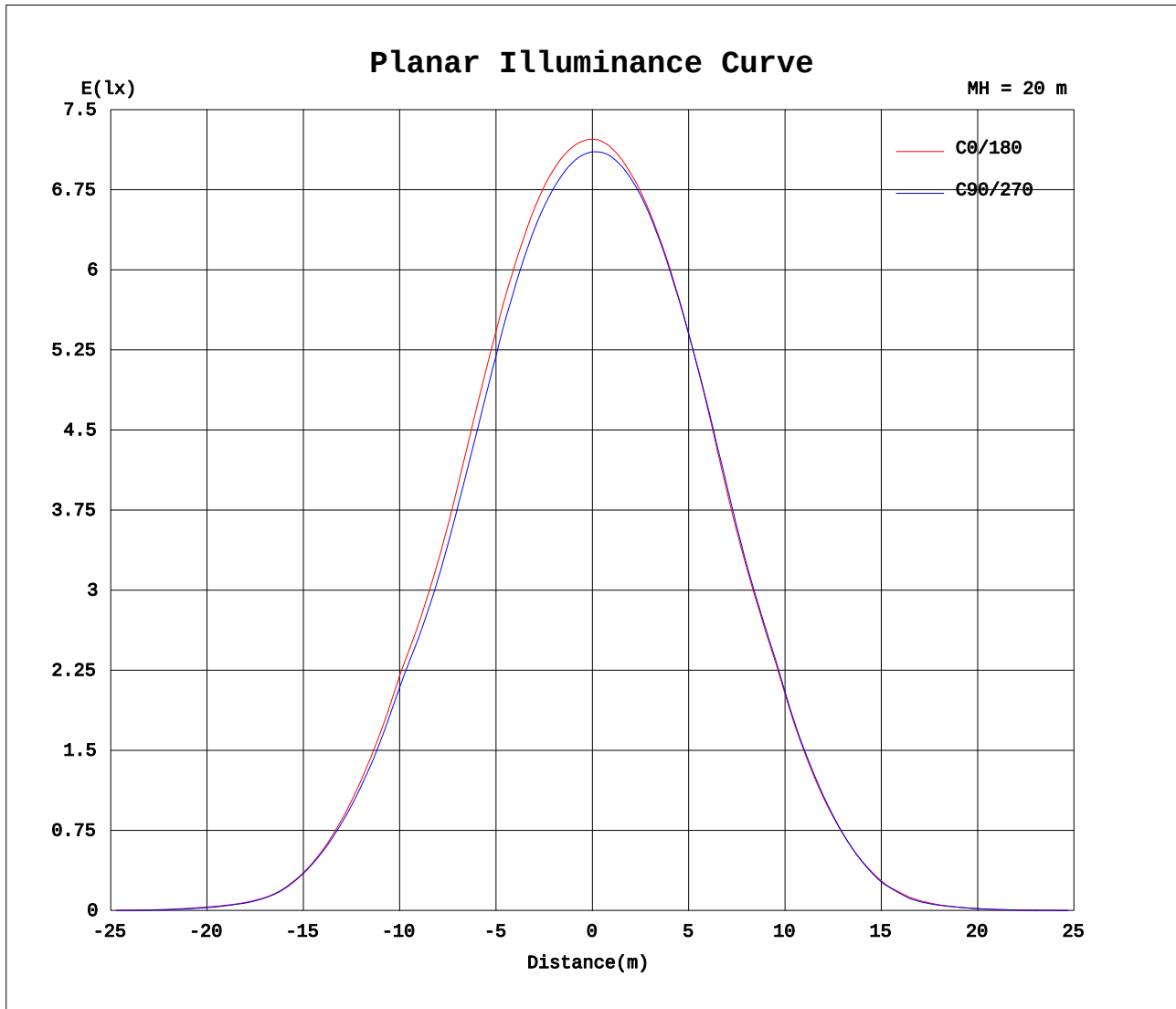
AvgL	cd/m2
L_0~180(65)av	727
L_0~180(75)av	401
L_0~180(85)av	597
L_90~270(65)av	154
L_90~270(75)av	162
L_90~270(85)av	524
L_45(65)av	215
L_45(75)av	174
L_45(85)av	526

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:28DEG
Operators:LGL
Test Date:2021-08-14

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: 2021-08-14

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: VM070-VF71SA01-20W	TYPE:indoor lights	WEIGHT:1
SPEC.:3000K-CRI90-55D	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	2848	2848	2848	2848	2848	2848	2848	2848	2848	2848	2848	2848	2848	2848	2848	2848	2848	2848	2848
5	2796	2793	2783	2782	2776	2779	2773	2775	2772	2780	2778	2786	2782	2782	2790	2790	2797	2796	2806
10	2608	2608	2583	2581	2562	2574	2569	2581	2572	2583	2577	2595	2593	2595	2602	2588	2601	2600	2627
15	2265	2269	2235	2229	2197	2208	2198	2218	2206	2225	2224	2261	2256	2257	2273	2257	2273	2270	2297
20	1787	1799	1774	1777	1748	1755	1728	1736	1720	1745	1744	1784	1763	1753	1780	1780	1815	1801	1816
25	1339	1353	1332	1346	1329	1331	1298	1302	1287	1307	1303	1325	1285	1266	1278	1278	1320	1308	1321
30	859	884	858	881	859	864	830	831	805	804	784	790	753	729	726	727	764	751	778
35	406	426	414	433	423	423	402	404	391	384	370	360	332	319	319	310	324	310	334
40	120	136	127	138	130	135	118	126	119	120	111	103	92.6	90.2	90.2	83.5	82.8	76.4	84.4
45	37.7	40.0	39.2	39.6	37.3	35.1	31.6	32.8	32.7	32.5	28.8	24.0	19.9	21.8	25.4	24.7	23.7	20.6	21.6
50	5.32	7.71	13.2	16.8	12.0	6.40	3.65	5.37	9.27	11.8	7.26	3.58	2.69	4.52	6.77	9.80	7.18	2.65	2.07
55	1.65	1.13	1.66	4.30	1.52	0.76	0.78	0.94	1.44	2.83	1.27	1.25	1.83	3.81	3.83	2.24	1.24	0.87	0.81
60	1.91	1.20	0.70	0.62	0.59	0.53	0.59	0.66	0.71	0.72	0.77	1.33	2.16	1.71	4.87	1.12	0.84	0.81	0.78
65	2.01	1.17	0.56	0.46	0.44	0.35	0.40	0.43	0.49	0.53	0.60	1.19	2.17	1.68	2.64	0.77	0.64	0.53	0.49
70	1.59	0.75	0.44	0.35	0.38	0.34	0.32	0.37	0.43	0.43	0.47	0.68	1.48	1.29	0.96	0.37	0.31	0.28	0.26
75	0.79	0.44	0.39	0.35	0.36	0.33	0.31	0.33	0.35	0.35	0.40	0.42	0.63	0.35	0.27	0.27	0.26	0.27	0.26
80	0.37	0.38	0.35	0.34	0.36	0.34	0.32	0.34	0.35	0.35	0.36	0.40	0.34	0.28	0.31	0.28	0.28	0.27	0.27
85	0.36	0.33	0.33	0.33	0.35	0.34	0.33	0.34	0.35	0.34	0.33	0.36	0.35	0.28	0.29	0.29	0.31	0.29	0.29
90	0.36	0.38	0.35	0.36	0.34	0.34	0.34	0.35	0.34	0.37	0.34	0.40	0.31	0.34	0.40	0.31	0.43	0.32	0.30
95	0.57	0.54	0.51	0.48	0.41	0.36	0.35	0.37	0.36	0.51	0.53	0.55	0.56	1.01	0.45	0.34	0.32	0.31	0.32
100	0.77	0.64	0.64	0.61	0.52	0.43	0.38	0.43	0.46	0.62	0.66	0.66	0.76	1.29	0.77	0.44	0.38	0.38	0.37
105	0.89	0.83	0.83	0.75	0.67	0.55	0.54	0.57	0.69	0.78	0.88	0.88	0.95	1.55	1.07	0.65	0.58	0.59	0.55
110	1.34	1.21	1.20	1.11	1.06	0.89	0.92	0.93	1.12	1.21	1.31	1.34	1.48	2.16	1.84	1.19	1.06	1.07	1.02
115	2.22	2.00	1.97	1.87	1.85	1.67	1.75	1.75	1.92	2.05	2.18	2.23	2.46	3.39	3.21	2.27	2.01	1.97	1.88
120	3.70	3.32	3.28	3.02	3.02	2.96	3.05	3.07	3.12	3.39	3.55	3.61	4.04	5.55	5.61	3.91	3.75	3.42	3.26
125	5.90	5.22	5.13	4.84	4.78	4.81	4.90	4.96	5.00	5.14	5.44	5.58	6.32	8.27	8.78	5.34	7.75	7.16	6.86
130	8.61	7.61	7.36	7.04	7.18	7.17	7.27	7.33	7.46	7.36	7.70	8.03	9.04	11.3	11.6	7.60	11.8	11.9	11.7
135	11.2	9.97	9.89	9.91	10.0	9.96	10.1	10.1	10.3	10.3	10.3	10.4	11.7	11.0	10.5	10.4	17.2	15.2	14.2
140	12.9	12.9	13.0	12.9	12.9	13.0	13.1	13.2	13.2	13.2	13.4	13.4	13.6	13.9	13.6	13.4	22.7	13.7	13.2
145	15.9	15.8	15.9	15.7	15.9	15.9	16.1	16.1	16.2	16.2	16.3	16.4	16.5	18.5	16.4	16.3	16.2	16.2	16.1
150	18.4	18.3	18.3	18.3	18.5	18.5	18.6	18.7	18.8	18.8	18.8	18.9	19.0	18.9	18.8	18.9	18.8	18.8	18.7
155	20.3	20.3	20.3	20.3	20.5	20.6	20.6	20.8	20.8	20.7	20.8	20.9	20.9	20.9	20.8	20.9	20.9	21.0	20.9
160	21.5	21.7	21.5	21.4	21.5	21.7	21.8	21.9	21.8	21.8	22.0	22.2	22.1	22.1	22.2	22.4	22.6	22.4	22.4
165	22.1	22.1	21.8	21.9	22.1	22.2	22.3	22.4	22.3	22.4	22.5	22.8	22.7	22.7	22.8	23.0	23.6	23.7	23.6
170	22.6	22.4	22.3	22.3	22.4	22.6	22.7	22.7	22.7	22.9	23.1	23.3	23.2	23.1	23.2	23.2	24.0	24.0	23.6
175	23.0	22.9	22.9	23.1	23.1	23.0	22.9	23.0	23.2	23.5	23.6	23.6	23.4	23.5	23.7	23.7	23.6	23.4	23.4
180	23.7	23.7	23.7	23.8	23.7	23.6	23.5	23.6	23.7	24.0	23.8	23.8	23.7	23.6	23.7	23.8	23.7	23.5	23.6

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:28DEG
Operators:LGL
Test Date:2021-08-14

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: VM070-VF71SA01-20W	TYPE:indoor lights	WEIGHT:1
SPEC.:3000K-CRI90-55D	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

Table--2

UNIT: cd

C(DEG) γ (DEG)	285	300	315	330	345														
0	2848	2848	2848	2848	2848														
5	2805	2806	2798	2800	2793														
10	2632	2639	2620	2613	2596														
15	2295	2303	2273	2269	2250														
20	1801	1818	1793	1803	1773														
25	1323	1347	1342	1364	1337														
30	796	821	816	849	835														
35	352	368	367	395	387														
40	92.2	101	104	121	114														
45	25.4	30.3	33.2	36.8	36.1														
50	3.27	8.60	13.3	11.9	6.93														
55	0.88	1.39	3.26	3.56	2.63														
60	0.81	0.86	0.96	5.44	1.45														
65	0.54	0.68	0.71	2.15	1.80														
70	0.27	0.34	0.39	0.59	1.42														
75	0.26	0.27	0.27	0.27	0.28														
80	0.27	0.28	0.27	0.35	0.27														
85	0.28	0.29	0.28	0.28	0.28														
90	0.29	0.30	0.31	0.41	0.37														
95	0.31	0.33	0.35	0.49	1.02														
100	0.37	0.38	0.44	0.79	1.22														
105	0.58	0.58	0.65	1.06	1.67														
110	1.04	1.02	1.11	1.72	2.12														
115	1.91	1.92	2.01	3.02	3.26														
120	3.34	3.58	3.54	5.35	5.32														
125	6.31	7.25	5.07	8.67	8.30														
130	11.4	11.8	7.42	11.4	11.3														
135	14.8	17.4	10.8	10.2	10.7														
140	13.3	23.4	13.1	13.4	13.4														
145	16.1	15.9	15.9	16.2	19.9														
150	18.7	18.6	18.5	18.4	18.5														
155	20.8	20.7	20.5	20.4	20.3														
160	22.3	22.2	22.4	21.8	21.5														
165	23.6	23.6	22.6	22.2	22.1														
170	23.4	23.4	22.7	22.6	22.6														
175	23.4	23.5	23.5	23.3	23.1														
180	23.5	23.7	23.9	23.9	23.7														

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:28DEG
Operators:LGL
Test Date:2021-08-14

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: