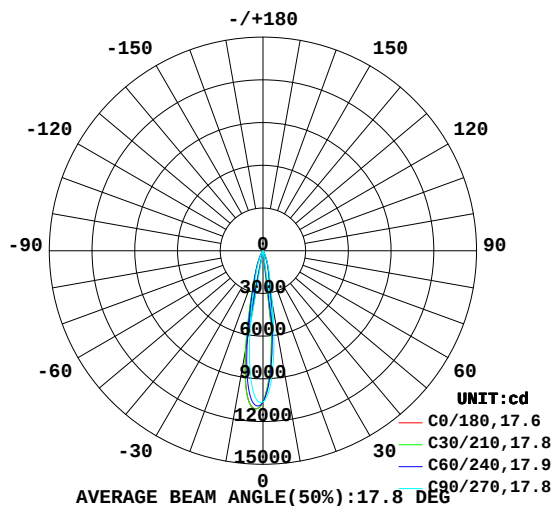


LUMINAIRE PHOTOMETRIC TEST REPORT

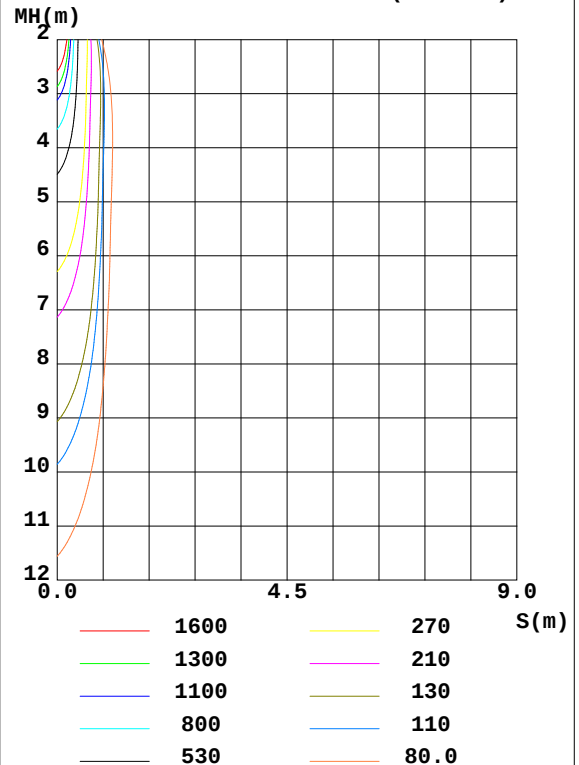
NAME: VM070-VF73RA01-20W	TYPE: indoor lights	WEIGHT: 1
SPEC.: 3000K-CRI90-15D	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 91.14 lm/W
MODEL	VM070-VF73RA01-20W	Imax(cd)	11126	S/MH(C0/180)	0.38	
NOMINAL POWER(W)	20	LOR(%)	100.0	S/MH(C90/270)	0.33	
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	1781.9	η UP, DN(C0-180)	1.2, 44.6	
NOMINAL FLUX(lm)	1781.89	CIE CLASS	DIRECT	η UP, DN(C180-360)	1.2, 53.0	
LAMPS INSIDE	1	η up(%)	2.4	CIBSE SHR NOM	0.00	
TEST VOLTAGE(V)	230	η down(%)	97.6	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: 2021-08-13

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:

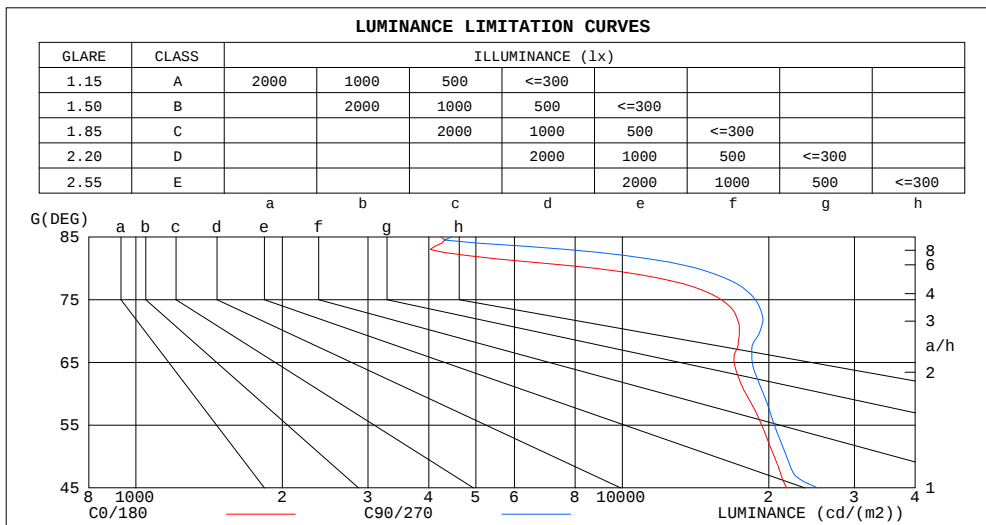
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	287.3	307.1	384.2	560.7	691.8	664.4	508.0	340.3	0- 10	697.1	697.1	39.1, 39.1
20	77.80	79.73	95.13	122.9	142.6	140.5	119.2	90.35	10- 20	616.4	1314	73.7, 73.7
30	12.79	13.48	16.96	26.26	34.05	31.88	22.58	14.87	20- 30	250.8	1564	87.8, 87.8
40	5.429	5.595	6.696	8.422	9.581	9.226	7.804	6.073	30- 40	76.40	1641	92.1, 92.1
50	3.111	3.110	3.323	3.544	3.856	3.772	3.513	3.199	40- 50	38.00	1679	94.2, 94.2
60	2.116	2.141	2.317	2.597	2.771	2.682	2.487	2.230	50- 60	26.10	1705	95.7, 95.7
70	1.404	1.426	1.561	1.702	1.757	1.711	1.623	1.484	60- 70	19.53	1724	96.8, 96.8
80	0.3590	0.4854	0.5864	0.6758	0.6525	0.7117	0.6125	0.4727	70- 80	11.99	1736	97.4, 97.4
90	0.0509	0.0519	0.0511	0.0510	0.0437	0.0443	0.0473	0.0512	80- 90	1.976	1738	97.6, 97.6
100	0.0682	0.0679	0.0661	0.0620	0.0608	0.0598	0.0650	0.0677	90-100	0.6088	1739	97.6, 97.6
110	0.0967	0.0940	0.0886	0.0802	0.0799	0.0793	0.0847	0.0927	100-110	0.7914	1740	97.6, 97.6
120	0.2064	0.2010	0.1762	0.1391	0.1269	0.1298	0.1507	0.1861	110-120	1.149	1741	97.7, 97.7
130	0.6079	0.5953	0.5059	0.3843	0.3392	0.3507	0.4220	0.5520	120-130	2.530	1743	97.8, 97.8
140	1.643	1.609	1.449	1.192	1.092	1.123	1.294	1.563	130-140	6.639	1750	98.2, 98.2
150	2.428	2.396	2.341	2.217	2.145	2.149	2.258	2.392	140-150	11.68	1762	98.9, 98.9
160	2.541	2.498	2.595	2.593	2.593	2.575	2.631	2.605	150-160	11.47	1773	99.5, 99.5
170	1.824	1.784	2.036	2.205	2.343	2.266	2.203	1.965	160-170	6.887	1780	99.9, 99.9
180	1.585	1.611	1.611	1.649	1.588	1.609	1.613	1.647	170-180	1.762	1782	100, 100
DEG	LUMINOUS INTENSITY: $\times 10\text{cd}$									UNIT: lm		

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: MEDIUM
 Temperature: 28DEG
 Operators: LGL
 Test Date: 2021-08-13

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: VM070-VF73RA01-20W	TYPE:indoor lights	WEIGHT:1
SPEC.:3000K-CRI90-15D	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	4239	4467
80	8766	14211
75	15961	18759
70	17405	19204
65	16971	18497
60	17949	19499
55	19340	20536
50	20524	21754
45	21781	25268

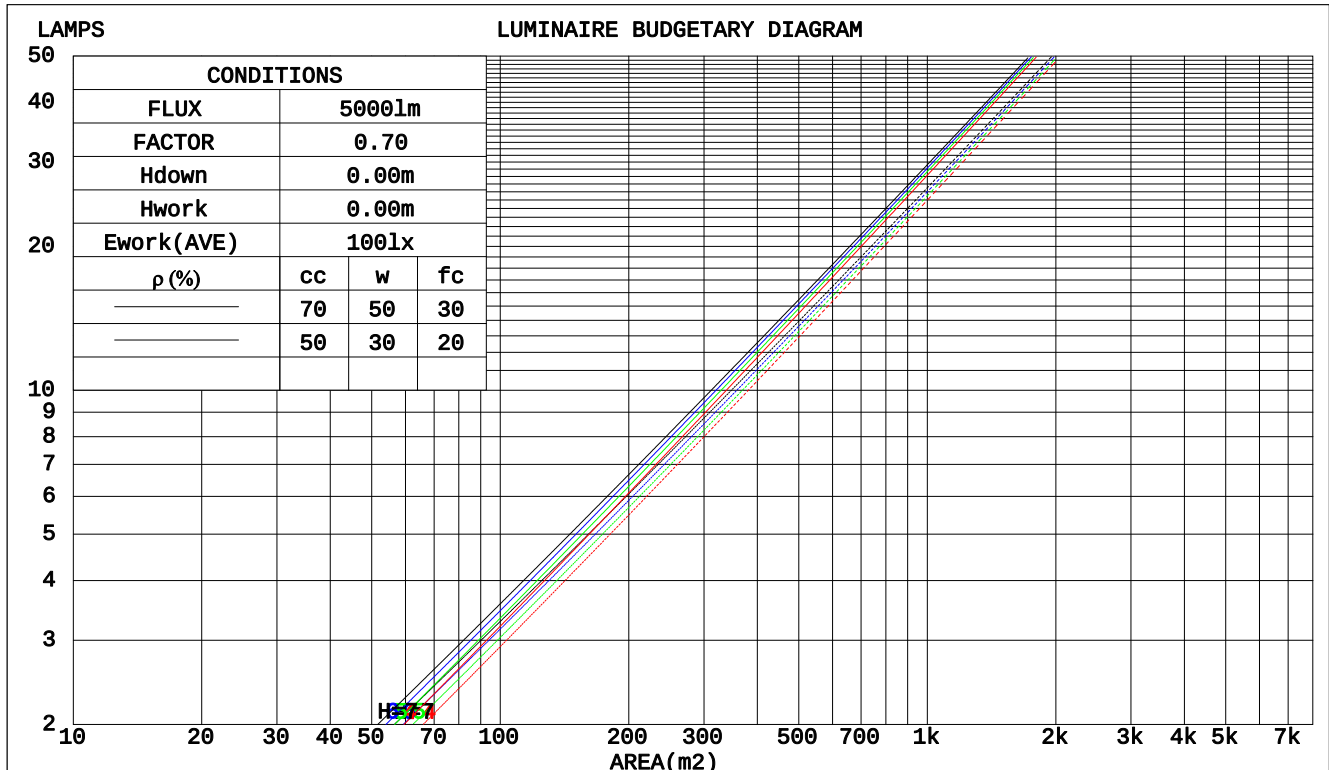
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: MEDIUM
 Temperature: 28DEG
 Operators: LGL
 Test Date: 2021-08-13

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-VF73RA01-20W	TYPE:indoor lights	WEIGHT:1
SPEC.:3000K-CRI90-15D	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	1.09	1.07	1.06	1.05	1.03	1.02	1.01	.00	.99	.97	.96	.95	.94
2.0	1.06	1.03	.00	1.04	1.01	.99	1.00	.98	.96	.97	.95	.94	.94	.93	.91	.90
3.0	1.01	.97	.94	.99	.96	.93	.97	.94	.91	.94	.92	.90	.91	.90	.88	.86
4.0	.97	.92	.89	.95	.92	.89	.93	.90	.87	.91	.88	.86	.89	.87	.85	.84
5.0	.93	.88	.85	.92	.88	.85	.90	.87	.84	.88	.85	.83	.87	.84	.82	.81
6.0	.90	.85	.82	.89	.85	.82	.87	.84	.81	.86	.83	.80	.84	.82	.80	.78
7.0	.87	.82	.79	.86	.82	.79	.85	.81	.78	.83	.80	.78	.82	.79	.77	.76
8.0	.84	.80	.77	.83	.79	.76	.82	.79	.76	.81	.78	.76	.80	.77	.75	.74
9.0	.81	.77	.74	.81	.77	.74	.80	.76	.74	.79	.76	.74	.78	.75	.73	.72
10.0	.79	.75	.72	.79	.75	.72	.78	.74	.72	.77	.74	.72	.76	.73	.71	.70



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:28DEG
Operators:LGL
Test Date:2021-08-13

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: VM070-VF73RA01-20W	TYPE:indoor lights	WEIGHT:1
SPEC.:3000K-CRI90-15D	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	.149	.085	.027	.141	.081	.026	.128	.073	.023	.115	.066	.021	.103	.060	.019		
2.0	.138	.076	.023	.132	.073	.022	.120	.067	.021	.109	.061	.019	.100	.056	.018		
3.0	.128	.068	.020	.123	.066	.020	.113	.061	.019	.104	.057	.017	.095	.053	.016		
4.0	.119	.062	.018	.115	.060	.018	.106	.056	.017	.099	.053	.016	.091	.050	.015		
5.0	.112	.057	.016	.108	.055	.016	.101	.052	.015	.094	.050	.015	.087	.047	.014		
6.0	.105	.053	.015	.102	.051	.015	.095	.049	.014	.089	.046	.014	.084	.044	.013		
7.0	.099	.049	.014	.096	.048	.014	.091	.046	.013	.085	.044	.013	.081	.042	.012		
8.0	.094	.046	.013	.091	.045	.013	.087	.043	.012	.082	.041	.012	.077	.040	.012		
9.0	.089	.043	.012	.087	.042	.012	.083	.041	.012	.079	.039	.011	.075	.038	.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	.176	.166	.161	.151	.143	.110	.104	.099	.063	.060	.057	.020	.019	.019	
2.0	.171	.152	.136	.146	.130	.117	.100	.090	.082	.058	.052	.048	.019	.017	.016	
3.0	.156	.132	.113	.134	.114	.098	.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	.107	.082	.064	.074	.058	.046	.043	.034	.027	.014	.011	.009	
7.0	.117	.087	.066	.101	.075	.058	.070	.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	.105	.075	.054	.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:2021-08-13

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-VF73RA01-20W	TYPE:indoor lights	WEIGHT:1
SPEC.:3000K-CRI90-15D	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	15.1	15.8	15.3	16.0	16.2	15.6	16.3	15.8	16.5	16.7
3H	16.4	17.1	16.7	17.3	17.5	16.9	17.6	17.2	17.8	18.0
4H	17.1	17.7	17.3	17.9	18.2	17.6	18.2	17.9	18.5	18.7
6H	17.3	17.9	17.6	18.2	18.4	18.0	18.6	18.3	18.9	19.1
8H	17.3	17.8	17.6	18.1	18.4	18.1	18.6	18.4	18.9	19.2
12H	17.3	17.8	17.6	18.1	18.4	18.0	18.6	18.4	18.9	19.2
4H 2H	15.6	16.2	15.9	16.5	16.7	16.0	16.6	16.3	16.9	17.1
3H	17.2	17.7	17.6	18.0	18.4	17.6	18.1	18.0	18.4	18.8
4H	17.9	18.4	18.3	18.8	19.1	18.4	18.9	18.8	19.2	19.6
6H	18.2	18.7	18.7	19.0	19.4	18.9	19.3	19.3	19.7	20.1
8H	18.2	18.6	18.7	19.0	19.4	19.0	19.4	19.4	19.8	20.2
12H	18.2	18.6	18.6	19.0	19.4	18.9	19.3	19.4	19.7	20.2
8H 4H	18.2	18.6	18.6	19.0	19.4	18.6	19.0	19.0	19.4	19.8
6H	18.6	18.9	19.0	19.3	19.8	19.2	19.5	19.6	19.9	20.4
8H	18.5	18.8	19.0	19.3	19.8	19.2	19.5	19.7	20.0	20.5
12H	18.5	18.8	19.0	19.3	19.8	19.2	19.5	19.7	20.0	20.5
12H 4H	18.2	18.5	18.6	18.9	19.4	18.6	19.0	19.0	19.4	19.8
6H	18.5	18.8	19.0	19.3	19.8	19.1	19.4	19.6	19.9	20.4
8H	18.5	18.8	19.0	19.3	19.8	19.2	19.5	19.7	20.0	20.5
Variations with the observer position at spacings:										
S = 1.0H	+ 0.3 / - 0.4					+ 0.3 / - 0.4				
1.5H	+ 0.4 / - 0.3					+ 0.6 / - 0.3				
2.0H	+ 0.3 / - 0.4					+ 0.3 / - 0.4				

CIE Pub.117, 1782 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:2021-08-13

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-VF73RA01-20W	TYPE:indoor lights	WEIGHT:1
SPEC.:3000K-CRI90-15D	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

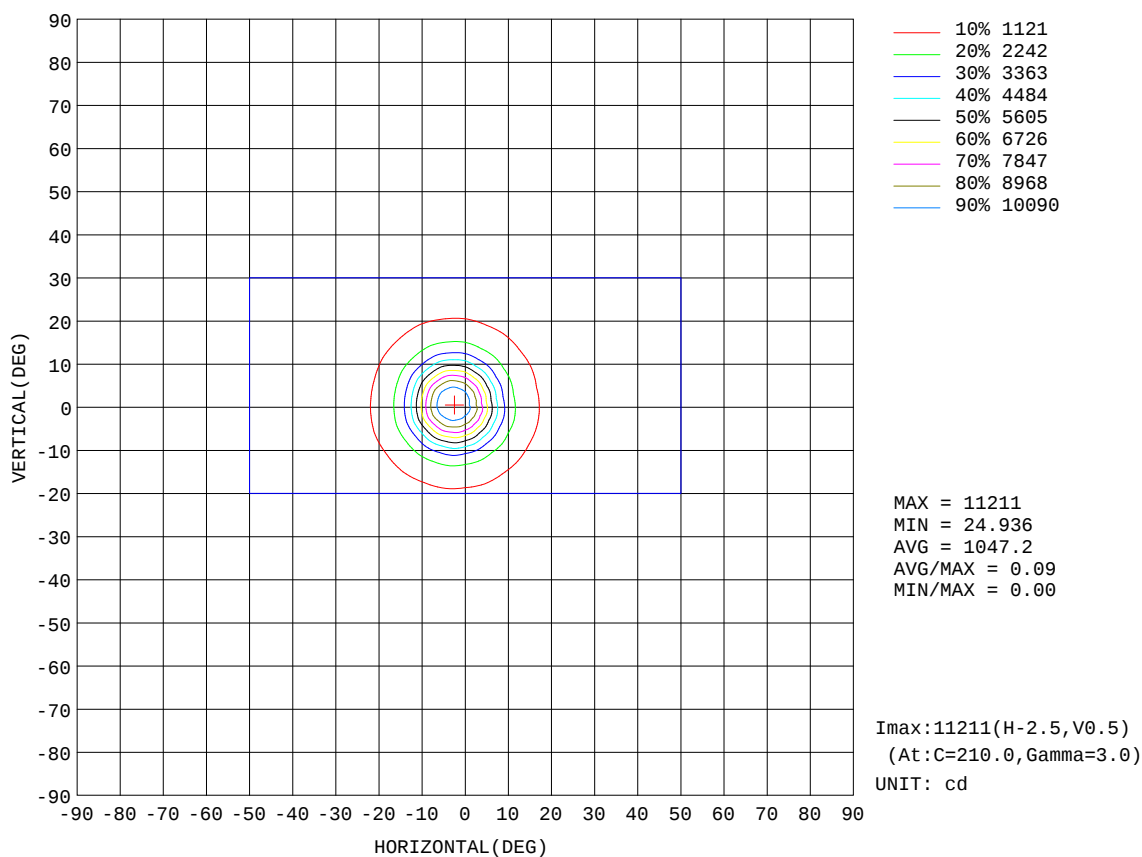
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	87	80	77	86	80	77	85	80	76	73
0.80	94	88	84	93	88	84	92	87	84	80
1.00	98	93	89	97	92	89	95	92	88	84
1.25	102	97	93	101	96	93	99	95	92	87
1.50	105	100	97	103	99	96	101	97	95	90
2.00	108	103	100	106	102	99	103	100	97	91
2.50	109	105	102	107	104	101	104	101	99	92
3.00	111	107	105	109	106	103	105	103	101	94
4.00	113	110	108	111	108	106	107	105	103	95
5.00	114	112	110	112	110	108	108	106	105	96
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:2021-08-13

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-VF73RA01-20W	TYPE: indoor lights	WEIGHT: 1
SPEC.: 3000K-CRI90-15D	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

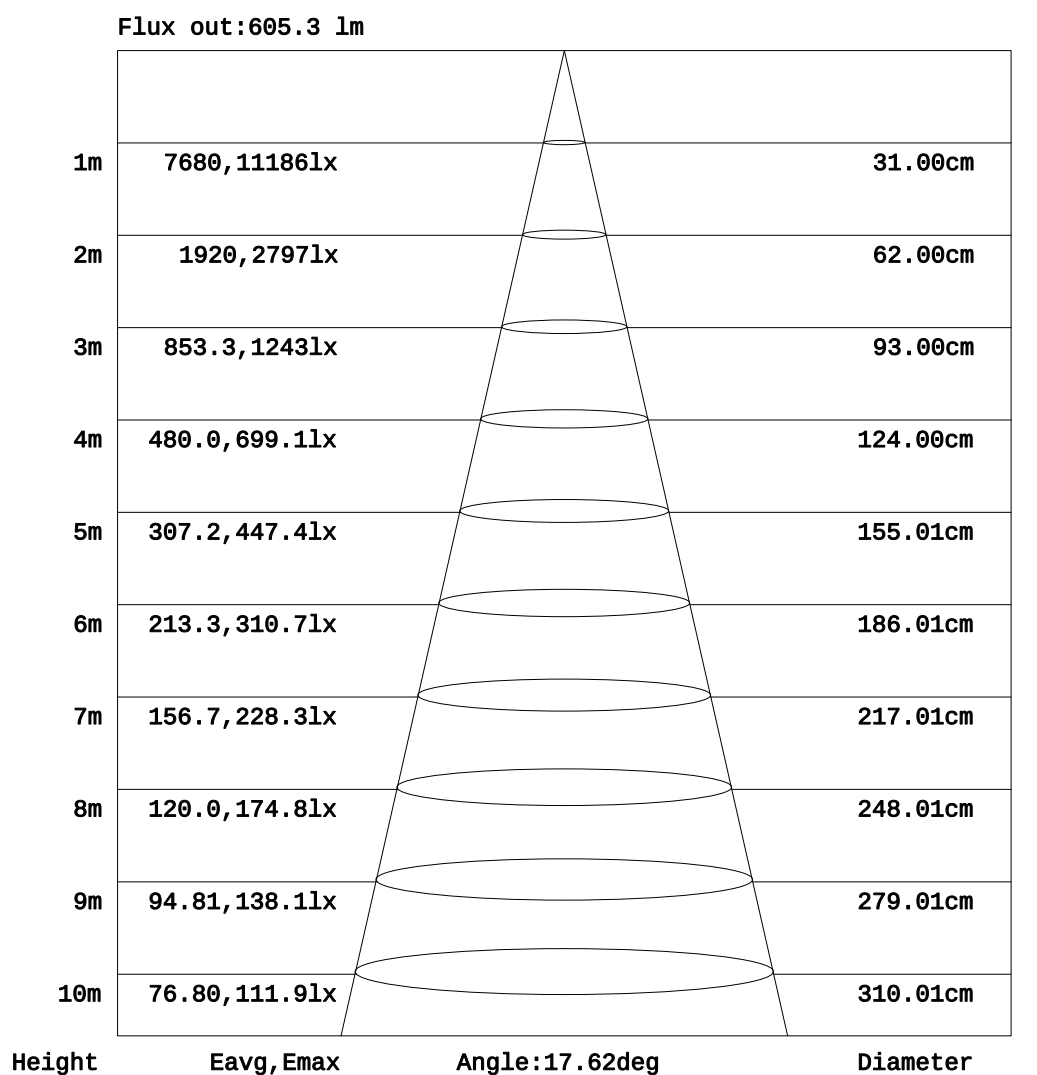


C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: MEDIUM
 Temperature: 28DEG
 Operators: LGL
 Test Date: 2021-08-13

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-VF73RA01-20W	TYPE:indoor lights	WEIGHT:1
SPEC.:3000K-CRI90-15D	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



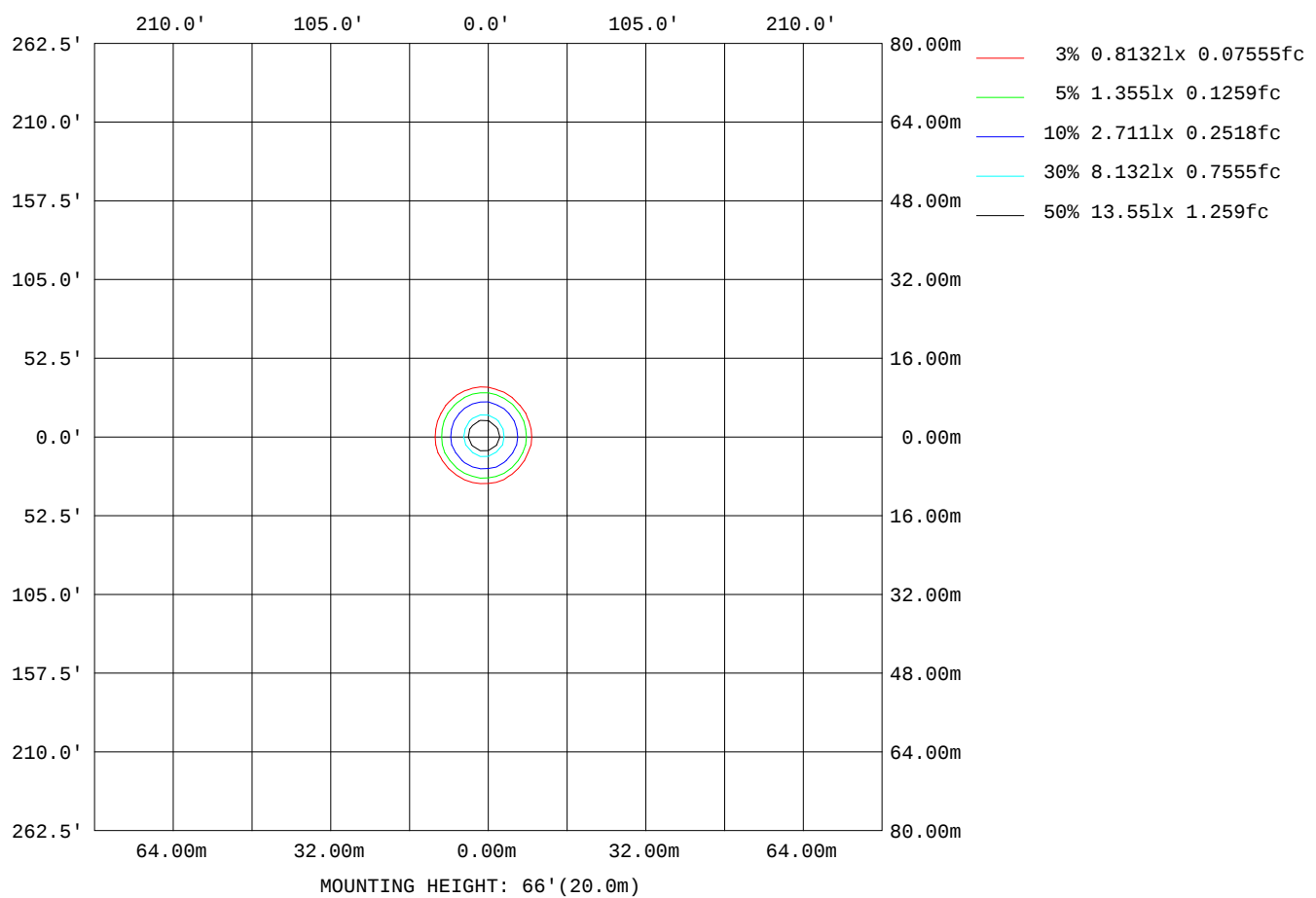
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: MEDIUM
 Temperature:28DEG
 Operators:LGL
 Test Date:2021-08-13

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-VF73RA01-20W	TYPE: indoor lights	WEIGHT: 1
SPEC.: 3000K-CRI90-15D	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature: 28DEG
Operators: LGL
Test Date: 2021-08-13

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-VF73RA01-20W	TYPE:indoor lights	WEIGHT:1
SPEC.:3000K-CRI90-15D	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

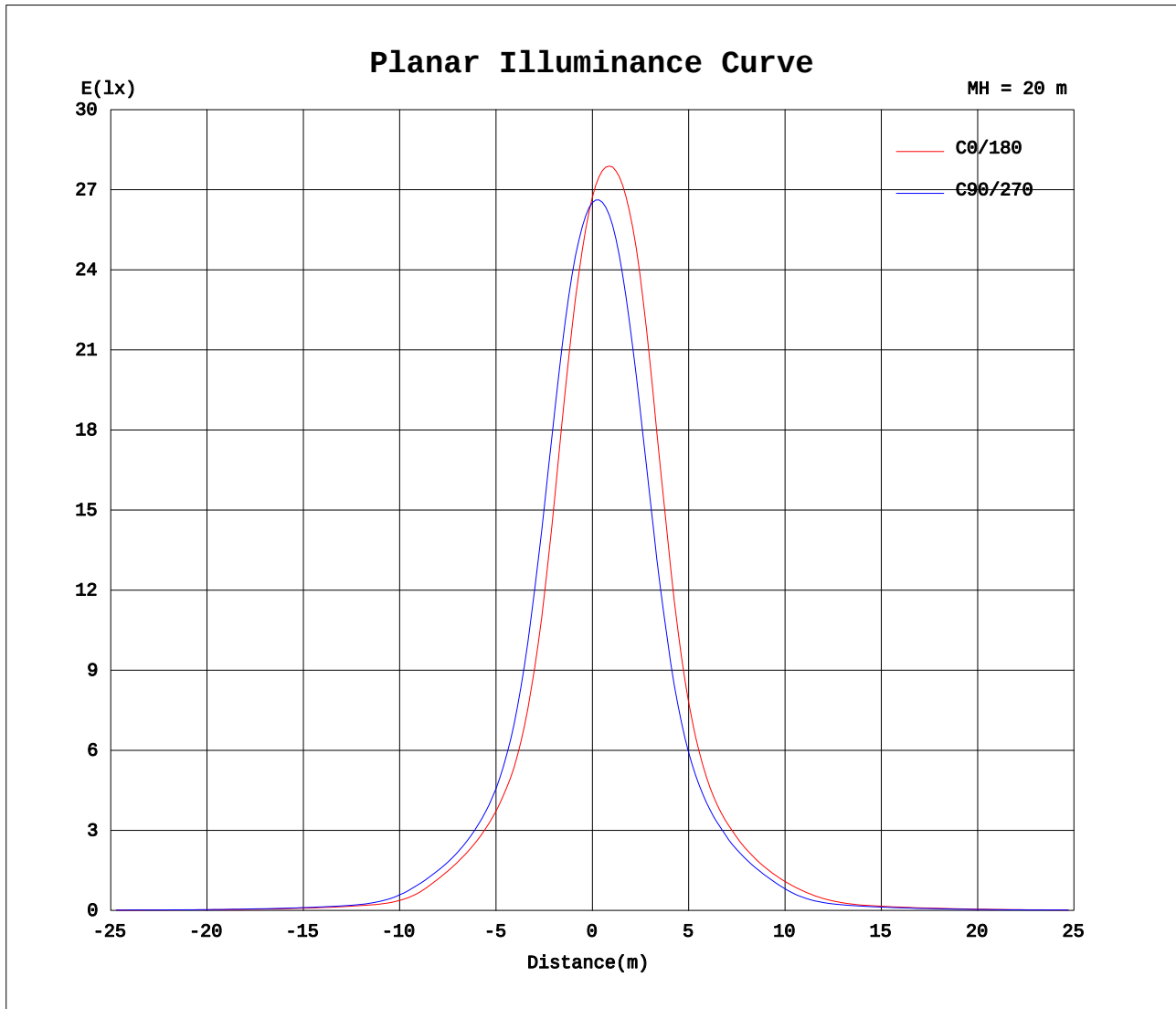
AvgL	cd/m2
L_0~180(65)av	19856
L_0~180(75)av	18665
L_0~180(85)av	4054
L_90~270(65)av	19254
L_90~270(75)av	19049
L_90~270(85)av	4106
L_45(65)av	19479
L_45(75)av	19128
L_45(85)av	4947

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:28DEG
Operators:LGL
Test Date:2021-08-13

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: 2021-08-13

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-vF73RA01-20W	TYPE:indoor lights	WEIGHT:1
SPEC.:3000K-CRI90-15D	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

Table--1

UNIT: ×10cd

C (DEG) γ (DEG)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270
0	1062	1062	1062	1062	1062	1062	1062	1062	1062	1062	1062	1062	1062	1062	1062	1062	1062	1062	1062
5	683	686	680	709	724	775	811	876	921	987	1023	1072	1074	1074	1079	1050	1027	973	931
10	287	290	288	307	320	356	384	442	484	561	608	688	692	695	710	664	634	560	508
15	144	145	143	150	154	167	176	195	210	237	254	286	287	290	302	285	275	244	225
20	77.8	77.2	76.1	79.7	82.8	90.6	95.1	104	111	123	130	143	143	141	147	141	140	127	119
25	29.6	29.4	28.7	31.6	34.7	41.3	45.5	51.9	56.6	64.2	68.6	76.3	75.5	75.1	77.4	74.3	73.8	67.1	61.1
30	12.8	13.0	12.8	13.5	13.8	15.6	17.0	19.8	22.5	26.3	29.5	34.3	34.0	33.5	34.2	31.9	30.7	26.2	22.6
35	8.36	8.26	8.33	8.63	9.06	9.73	10.2	11.2	12.0	13.1	13.8	15.1	15.0	15.1	15.4	14.4	14.1	12.9	12.1
40	5.43	5.33	5.35	5.59	5.94	6.39	6.70	7.20	7.75	8.42	8.95	9.61	9.58	9.51	9.61	9.23	9.01	8.37	7.80
45	3.63	3.56	3.58	3.67	3.84	4.13	4.25	4.54	4.81	5.33	5.71	6.19	6.14	6.06	6.10	5.92	5.81	5.37	4.95
50	3.11	3.07	3.08	3.11	3.20	3.37	3.32	3.36	3.42	3.54	3.69	3.96	3.86	3.77	3.82	3.77	3.80	3.71	3.51
55	2.62	2.61	2.62	2.63	2.67	2.77	2.80	2.89	2.96	3.06	3.16	3.38	3.27	3.20	3.23	3.17	3.18	3.15	2.98
60	2.12	2.12	2.12	2.14	2.17	2.25	2.32	2.43	2.51	2.60	2.64	2.76	2.77	2.75	2.76	2.68	2.64	2.55	2.49
65	1.69	1.68	1.68	1.71	1.74	1.79	1.86	1.96	2.04	2.12	2.16	2.26	2.29	2.27	2.28	2.20	2.16	2.06	2.01
70	1.40	1.40	1.40	1.43	1.46	1.51	1.56	1.62	1.65	1.70	1.72	1.77	1.76	1.75	1.76	1.71	1.69	1.65	1.62
75	0.97	0.99	1.02	1.05	1.06	1.12	1.15	1.22	1.25	1.32	1.32	1.34	1.32	1.29	1.35	1.30	1.28	1.22	1.19
80	0.36	0.38	0.43	0.49	0.50	0.56	0.59	0.65	0.68	0.68	0.75	0.69	0.65	0.64	0.73	0.71	0.70	0.64	0.61
85	0.09	0.10	0.10	0.10	0.10	0.10	0.09	0.09	0.09	0.11	0.13	0.15	0.08	0.07	0.13	0.10	0.10	0.08	0.08
90	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.04	0.04	0.04	0.04	0.04	0.05	0.05
95	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.06
100	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.07
105	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
110	0.10	0.10	0.10	0.09	0.09	0.09	0.09	0.09	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
115	0.13	0.13	0.13	0.13	0.13	0.12	0.12	0.11	0.10	0.10	0.10	0.09	0.09	0.09	0.09	0.09	0.10	0.10	0.10
120	0.21	0.21	0.21	0.20	0.20	0.18	0.18	0.16	0.15	0.14	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.14	0.15
125	0.34	0.34	0.35	0.34	0.33	0.31	0.29	0.26	0.25	0.22	0.21	0.20	0.20	0.20	0.20	0.20	0.21	0.23	0.24
130	0.61	0.61	0.62	0.60	0.58	0.54	0.51	0.46	0.42	0.38	0.36	0.34	0.34	0.34	0.34	0.35	0.36	0.39	0.42
135	1.07	1.07	1.09	1.05	1.02	0.95	0.90	0.82	0.76	0.69	0.65	0.60	0.62	0.62	0.62	0.64	0.67	0.72	0.77
140	1.64	1.64	1.66	1.61	1.58	1.50	1.45	1.35	1.28	1.19	1.13	1.07	1.09	1.09	1.09	1.12	1.16	1.23	1.29
145	2.13	2.12	2.13	2.09	2.08	2.02	1.98	1.90	1.84	1.76	1.71	1.65	1.66	1.65	1.66	1.68	1.72	1.79	1.85
150	2.43	2.41	2.42	2.40	2.39	2.36	2.34	2.30	2.26	2.22	2.18	2.15	2.15	2.13	2.14	2.15	2.18	2.22	2.26
155	2.57	2.55	2.56	2.54	2.55	2.54	2.54	2.52	2.50	2.48	2.46	2.45	2.44	2.42	2.43	2.43	2.46	2.48	2.51
160	2.54	2.51	2.50	2.50	2.54	2.58	2.60	2.60	2.59	2.59	2.59	2.60	2.59	2.57	2.59	2.57	2.60	2.61	2.63
165	2.25	2.20	2.17	2.22	2.31	2.38	2.43	2.47	2.49	2.53	2.54	2.59	2.59	2.57	2.57	2.55	2.56	2.56	2.57
170	1.82	1.79	1.77	1.78	1.86	1.97	2.04	2.10	2.13	2.20	2.27	2.34	2.34	2.32	2.33	2.27	2.25	2.22	2.20
175	1.52	1.51	1.52	1.55	1.58	1.60	1.64	1.71	1.77	1.86	1.90	1.93	1.92	1.91	1.92	1.89	1.86	1.80	1.77
180	1.59	1.59	1.60	1.61	1.60	1.59	1.61	1.61	1.62	1.65	1.62	1.62	1.59	1.58	1.60	1.61	1.60	1.59	1.61

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:28DEG
Operators:LGL
Test Date:2021-08-13

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-VF73RA01-20W	TYPE:indoor lights	WEIGHT:1
SPEC.:3000K-CRI90-15D	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

Table--2

UNIT: ×10cd

C(DEG) γ (DEG)	285	300	315	330	345														
0	1062	1062	1062	1062	1062														
5	864	819	759	726	684														
10	434	390	340	316	290														
15	198	184	166	157	146														
20	107	100	90.3	85.8	79.2														
25	51.8	45.2	37.9	34.6	30.3														
30	19.4	17.2	14.9	14.4	13.0														
35	11.1	10.3	9.41	8.99	8.51														
40	7.05	6.53	6.07	5.81	5.52														
45	4.40	4.09	3.84	3.78	3.72														
50	3.34	3.26	3.20	3.19	3.20														
55	2.87	2.80	2.72	2.66	2.62														
60	2.40	2.33	2.23	2.17	2.11														
65	1.93	1.86	1.79	1.73	1.69														
70	1.58	1.54	1.48	1.44	1.40														
75	1.12	1.09	1.04	1.02	0.96														
80	0.55	0.53	0.47	0.45	0.34														
85	0.08	0.08	0.09	0.09	0.09														
90	0.05	0.05	0.05	0.05	0.05														
95	0.06	0.06	0.06	0.06	0.06														
100	0.07	0.07	0.07	0.07	0.07														
105	0.08	0.08	0.08	0.08	0.08														
110	0.09	0.09	0.09	0.09	0.10														
115	0.11	0.11	0.12	0.13	0.14														
120	0.16	0.17	0.19	0.19	0.21														
125	0.26	0.28	0.31	0.32	0.35														
130	0.47	0.50	0.55	0.59	0.64														
135	0.85	0.91	1.00	1.05	1.12														
140	1.39	1.46	1.56	1.62	1.70														
145	1.93	1.99	2.07	2.11	2.17														
150	2.31	2.34	2.39	2.41	2.46														
155	2.53	2.55	2.58	2.58	2.60														
160	2.63	2.63	2.61	2.57	2.58														
165	2.53	2.48	2.39	2.31	2.29														
170	2.13	2.06	1.97	1.91	1.88														
175	1.73	1.71	1.67	1.60	1.58														
180	1.61	1.62	1.65	1.62	1.62														

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:28DEG
Operators:LGL
Test Date:2021-08-13

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: