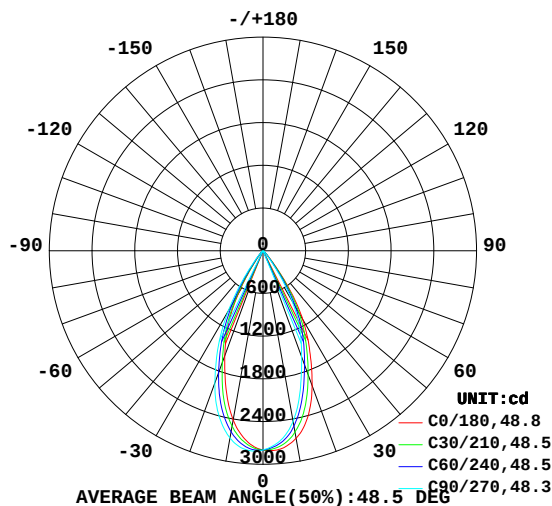


LUMINAIRE PHOTOMETRIC TEST REPORT

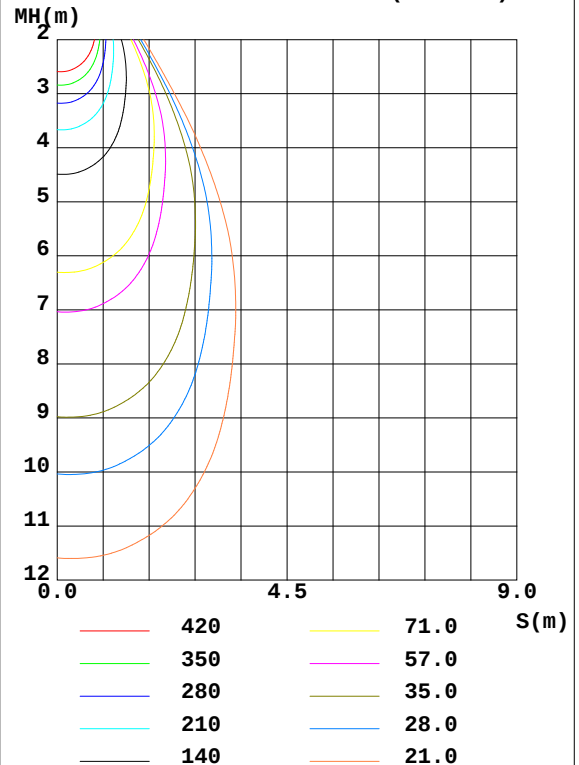
NAME: VM070-VF73RA01-20W	TYPE: indoor lights	WEIGHT: 1
SPEC.: 3000K-CRI90-55D	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 96.31 lm/W			
MODEL	VM070-VF73RA01-20W	Imax(cd)	2826	S/MH(C0/180)	0.69
NOMINAL POWER(W)	20	LOR(%)	100.0	S/MH(C90/270)	0.79
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	1881.4	η UP, DN(C0-180)	1.2, 47.3
NOMINAL FLUX(lm)	1881.44	CIE CLASS	DIRECT	η UP, DN(C180-360)	1.2, 50.3
LAMPS INSIDE	1	η up(%)	2.4	CIBSE SHR NOM	0.75
TEST VOLTAGE(V)	230	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: 2021-08-13

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:

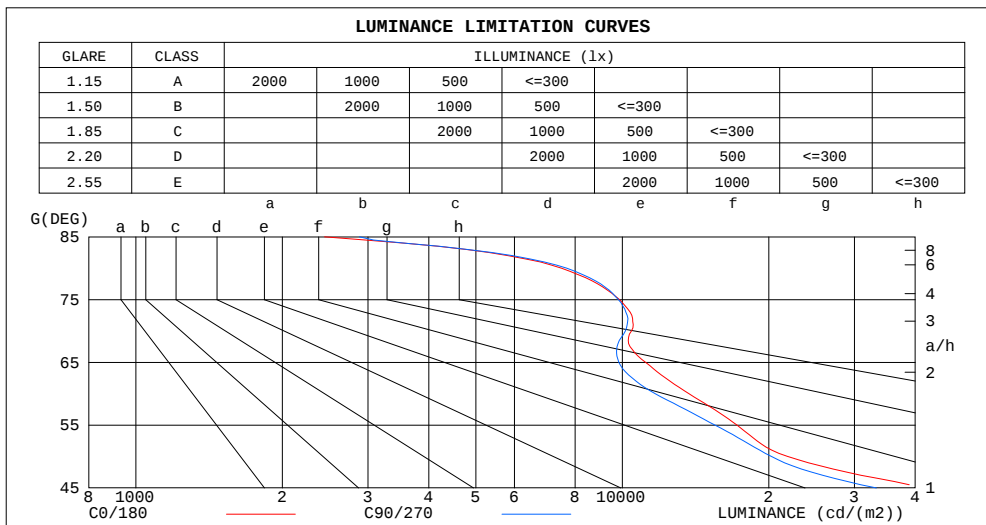
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	2676	2552	2433	2374	2413	2534	2670	2724	0- 10	255.5	255.5	13.6,13.6
20	2018	1793	1590	1535	1571	1728	1978	2062	10- 20	610.4	865.9	46,46
30	1122	991.4	822.5	720.3	687.9	776.9	977.8	1082	20- 30	611.8	1478	78.5,78.5
40	200.9	170.2	124.0	97.23	86.68	104.7	153.9	187.2	30- 40	273.7	1751	93.1,93.1
50	33.13	32.80	30.95	28.86	25.90	26.04	27.74	31.04	40- 50	49.05	1800	95.7,95.7
60	16.15	15.28	13.89	12.98	12.18	12.51	14.01	15.29	50- 60	18.63	1819	96.7,96.7
70	8.417	8.380	8.248	8.044	7.755	7.659	7.929	8.166	60- 70	10.24	1829	97.2,97.2
80	3.069	3.199	3.174	2.986	2.997	2.821	2.907	2.829	70- 80	6.094	1835	97.6,97.6
90	0.3946	0.3989	0.4142	0.4277	0.3880	0.3769	0.3696	0.3547	80- 90	1.150	1837	97.6,97.6
100	0.4932	0.5025	0.5174	0.5522	0.5464	0.5176	0.5046	0.4720	90-100	0.4805	1837	97.6,97.6
110	0.9285	1.001	1.217	1.371	1.453	1.310	1.096	0.9723	100-110	0.7894	1838	97.7,97.7
120	2.774	3.065	3.703	4.064	4.141	3.708	3.139	2.855	110-120	2.108	1840	97.8,97.8
130	6.589	7.228	8.321	8.884	8.886	8.088	7.095	6.619	120-130	4.814	1845	98.1,98.1
140	12.17	13.00	14.32	14.96	14.99	13.96	12.70	12.15	130-140	8.105	1853	98.5,98.5
150	17.88	18.56	19.67	20.21	20.24	19.47	18.44	17.88	140-150	10.23	1863	99,99
160	21.57	21.69	22.37	22.42	22.61	22.41	22.33	21.69	150-160	9.610	1873	99.5,99.5
170	23.10	22.73	23.03	23.28	23.51	23.47	23.49	23.27	160-170	6.427	1879	99.9,99.9
180	24.36	24.33	24.07	24.60	24.39	24.30	24.08	24.59	170-180	2.255	1881	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:2021-08-13

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:

LUMINANCE LIMITATION CURVES

NAME: VM070-VF73RA01-20W	TYPE:indoor lights	WEIGHT:1
SPEC.:3000K-CRI90-55D	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	2443	2883
80	7499	7687
75	9866	9816
70	10442	10143
65	11163	9839
60	13704	11683
55	17199	15502
50	21867	20251
45	42238	33286

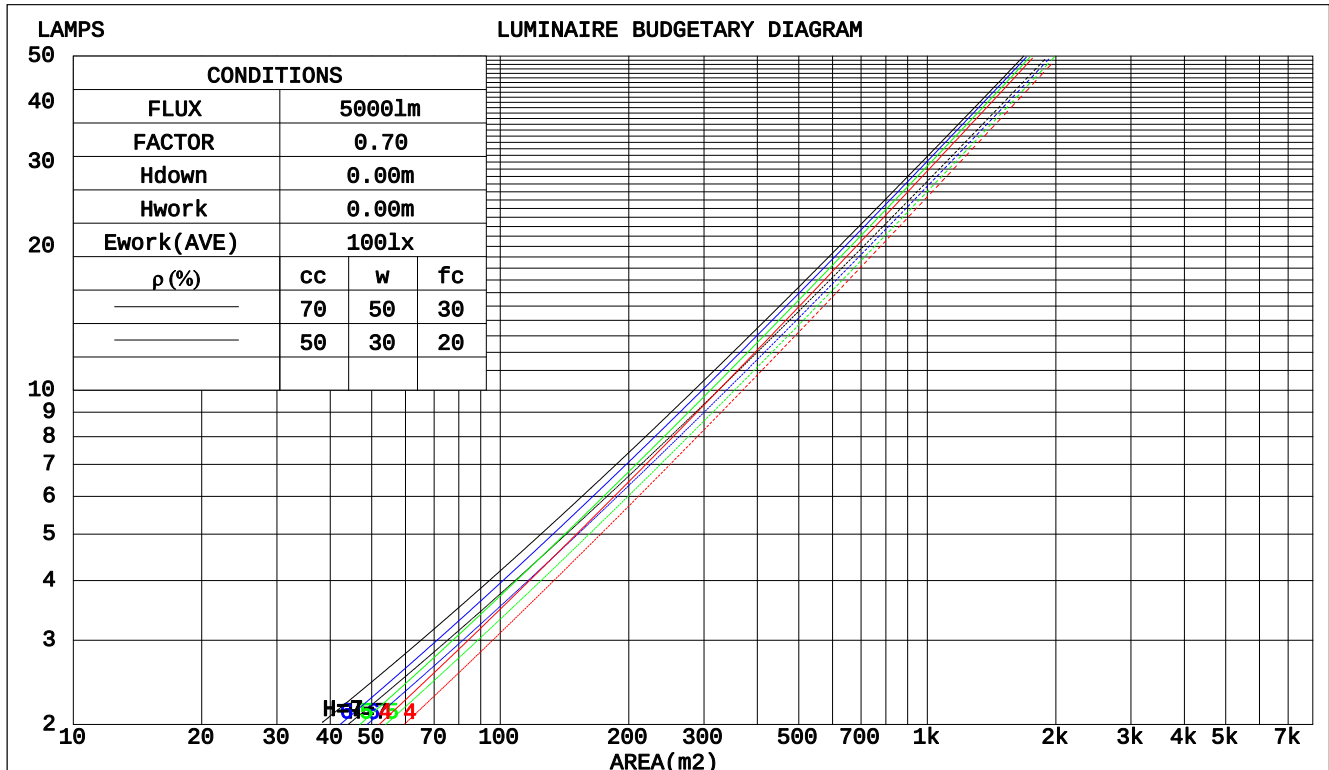
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: MEDIUM
 Temperature:28DEG
 Operators:LGL
 Test Date:2021-08-13

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-CRI90-55D	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	1.05	1.05	1.05	.00	.00	.00	.98
1.0	1.10	1.08	1.06	1.08	1.06	1.04	1.04	1.02	1.00	.00	.98	.97	.96	.95	.94	.92
2.0	1.03	.99	.96	1.01	.98	.95	.98	.95	.92	.94	.92	.90	.91	.90	.88	.86
3.0	.97	.92	.88	.95	.91	.87	.92	.89	.86	.90	.87	.84	.87	.85	.83	.81
4.0	.91	.86	.82	.90	.85	.81	.87	.83	.80	.85	.82	.79	.83	.80	.78	.76
5.0	.86	.80	.76	.85	.80	.76	.83	.78	.75	.81	.77	.74	.79	.76	.73	.72
6.0	.81	.75	.71	.80	.75	.71	.78	.74	.70	.77	.73	.70	.75	.72	.69	.68
7.0	.77	.71	.67	.76	.71	.67	.74	.70	.66	.73	.69	.66	.72	.68	.65	.64
8.0	.73	.67	.63	.72	.67	.63	.71	.66	.63	.70	.65	.62	.69	.65	.62	.61
9.0	.69	.64	.60	.69	.63	.60	.67	.63	.59	.66	.62	.59	.65	.62	.59	.57
10.0	.66	.60	.57	.65	.60	.57	.64	.60	.56	.63	.59	.56	.63	.59	.56	.55



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:

WEC AND CCEC

NAME: VM070-VF73RA01-20W	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	.172	.098	.031	.165	.094	.030	.151	.086	.028	.138	.080	.026	.126	.073	.024		
2.0	.163	.089	.027	.157	.086	.027	.145	.081	.025	.134	.075	.024	.124	.070	.022		
3.0	.155	.082	.025	.149	.080	.024	.139	.075	.023	.130	.071	.022	.121	.067	.021		
4.0	.147	.076	.022	.142	.074	.022	.133	.071	.021	.125	.067	.020	.117	.064	.019		
5.0	.139	.071	.021	.135	.069	.020	.128	.066	.020	.120	.064	.019	.114	.061	.018		
6.0	.133	.067	.019	.129	.065	.019	.122	.063	.018	.116	.060	.018	.110	.058	.017		
7.0	.127	.063	.018	.124	.062	.018	.117	.059	.017	.112	.057	.017	.106	.055	.016		
8.0	.121	.059	.017	.118	.058	.016	.113	.056	.016	.108	.055	.016	.103	.053	.015		
9.0	.116	.056	.016	.114	.055	.016	.109	.054	.015	.104	.052	.015	.100	.051	.015		
10.0	.111	.053	.015	.109	.053	.015	.105	.051	.014	.100	.050	.014	.096	.049	.014		

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	.178	.178	.178	.122	.122	.122	.070	.070	.070	.022	.022	.022	
1.0	.189	.176	.164	.162	.151	.141	.111	.104	.097	.064	.060	.057	.020	.019	.018	
2.0	.174	.151	.132	.149	.130	.114	.102	.090	.080	.059	.052	.047	.019	.017	.015	
3.0	.161	.132	.109	.138	.114	.095	.095	.079	.066	.055	.046	.039	.018	.015	.013	
4.0	.150	.117	.092	.129	.101	.080	.089	.071	.056	.051	.041	.033	.016	.013	.011	
5.0	.141	.106	.079	.121	.091	.069	.084	.064	.049	.048	.037	.029	.016	.012	.010	
6.0	.134	.096	.070	.115	.083	.061	.079	.058	.043	.046	.034	.025	.015	.011	.008	
7.0	.127	.089	.062	.109	.077	.054	.075	.054	.038	.044	.032	.023	.014	.010	.008	
8.0	.121	.082	.056	.104	.071	.049	.072	.050	.034	.042	.030	.021	.014	.010	.007	
9.0	.116	.077	.051	.100	.067	.044	.069	.047	.032	.040	.028	.019	.013	.009	.006	
10.0	.111	.073	.047	.096	.063	.041	.067	.044	.029	.039	.026	.017	.013	.009	.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-CRI90-55D						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		20.7	21.6	21.0	21.8	22.0	18.9	19.8	19.2	20.0	20.2
3H		20.6	21.4	20.9	21.7	21.9	18.9	19.7	19.2	19.9	20.1
4H		20.6	21.3	20.9	21.6	21.9	18.8	19.6	19.1	19.9	20.1
6H		20.5	21.2	20.8	21.5	21.8	18.8	19.5	19.1	19.8	20.1
8H		20.5	21.2	20.8	21.4	21.8	18.8	19.4	19.1	19.7	20.0
12H		20.4	21.1	20.8	21.4	21.7	18.7	19.4	19.1	19.7	20.0
4H	2H	20.5	21.3	20.8	21.5	21.8	18.7	19.5	19.0	19.7	20.0
	3H	20.4	21.1	20.8	21.4	21.7	18.7	19.4	19.1	19.7	20.0
	4H	20.4	21.0	20.8	21.3	21.7	18.7	19.3	19.1	19.6	20.0
	6H	20.3	20.8	20.7	21.2	21.6	18.7	19.2	19.1	19.6	20.0
	8H	20.3	20.8	20.7	21.2	21.6	18.7	19.1	19.1	19.5	20.0
	12H	20.2	20.7	20.7	21.1	21.5	18.6	19.1	19.1	19.5	19.9
8H	4H	20.3	20.7	20.7	21.1	21.5	18.6	19.1	19.0	19.5	19.9
	6H	20.2	20.6	20.7	21.0	21.5	18.6	19.0	19.1	19.4	19.9
	8H	20.2	20.5	20.7	21.0	21.5	18.6	18.9	19.1	19.4	19.9
	12H	20.1	20.4	20.6	20.9	21.4	18.5	18.8	19.0	19.3	19.8
12H	4H	20.2	20.6	20.7	21.1	21.5	18.6	19.0	19.0	19.4	19.9
	6H	20.2	20.5	20.6	21.0	21.5	18.6	18.9	19.1	19.4	19.9
	8H	20.1	20.4	20.6	20.9	21.4	18.5	18.8	19.0	19.3	19.8
Variations with the observer position at spacings:											
S = 1.0H		+ 3.9 / - 5.7					+ 2.5 / - 3.8				
1.5H		+ 6.3 / - 5.0					+ 4.5 / - 3.2				
2.0H		+ 3.3 / - 1.6					+ 2.4 / - 1.4				

CIE Pub.117, 1881 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = 2.2$)

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-CRI90-55D	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

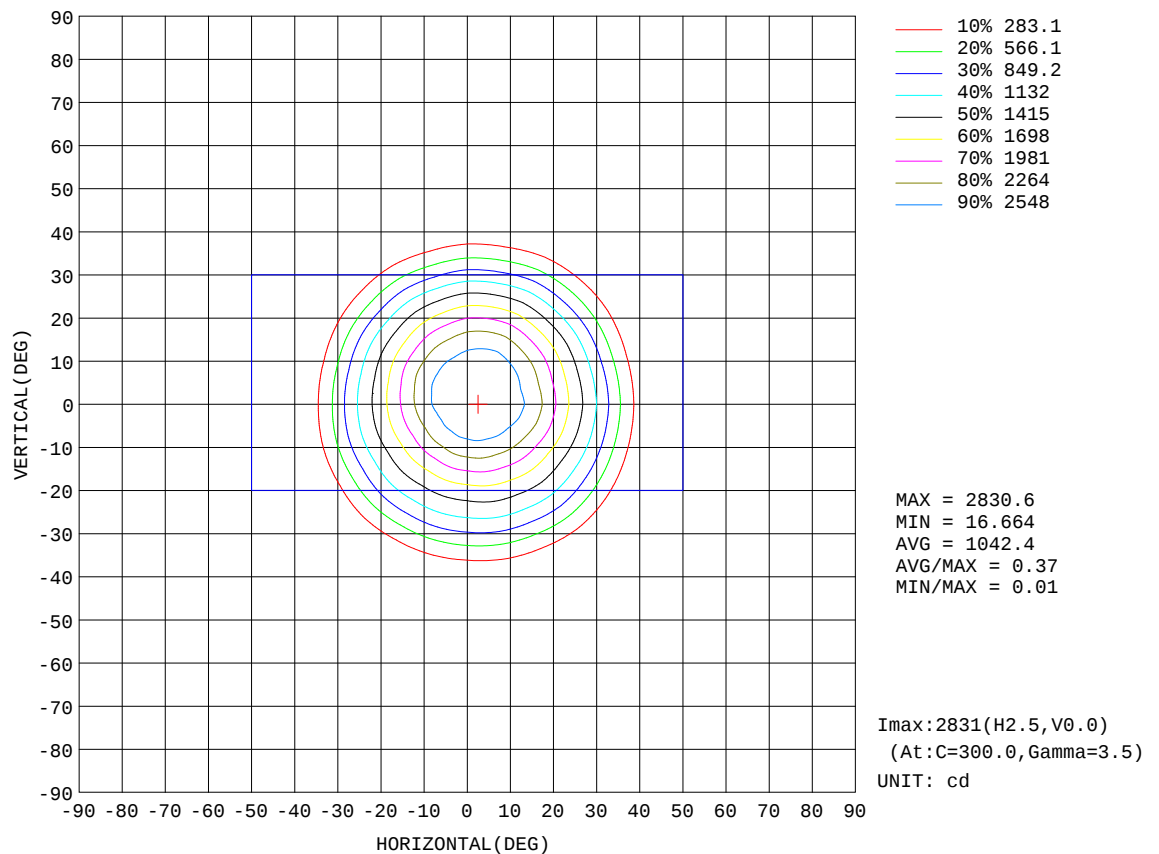
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	87	81	77	87	81	77	86	80	77	73
0.80	95	89	85	94	88	85	92	88	84	81
1.00	99	93	90	98	93	89	96	92	89	85
1.25	103	98	94	101	97	94	99	95	93	88
1.50	105	101	97	104	100	97	101	98	95	91
2.00	108	104	101	106	103	100	103	100	98	92
2.50	110	106	103	108	104	102	104	102	100	93
3.00	111	108	105	109	106	104	105	103	101	94
4.00	113	110	108	111	109	107	107	105	104	96
5.00	114	112	110	112	110	109	108	106	105	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:2021-08-13

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-CRI90-55D	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

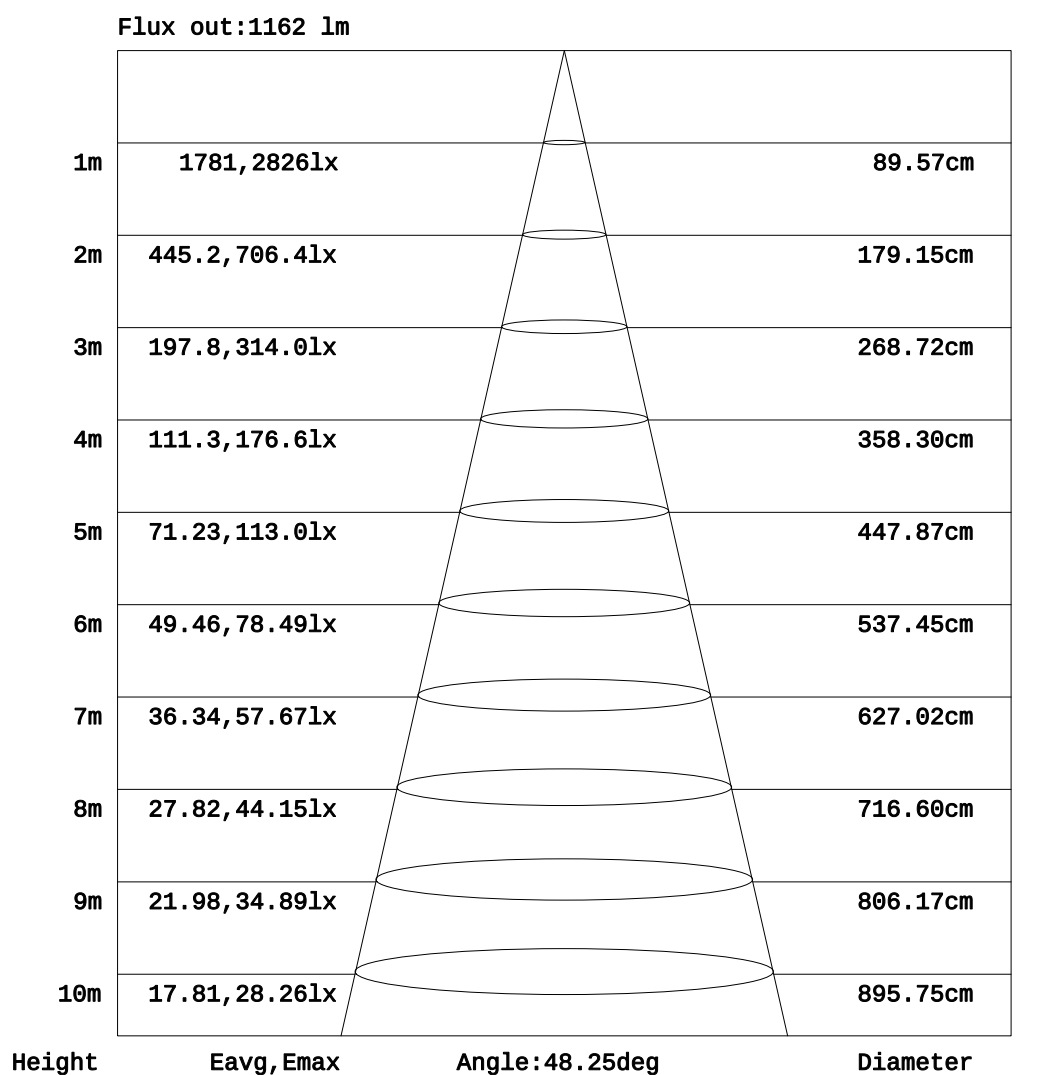


C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: MEDIUM
 Temperature: 28DEG
 Operators: LGL
 Test Date: 2021-08-13

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-CRI90-55D	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



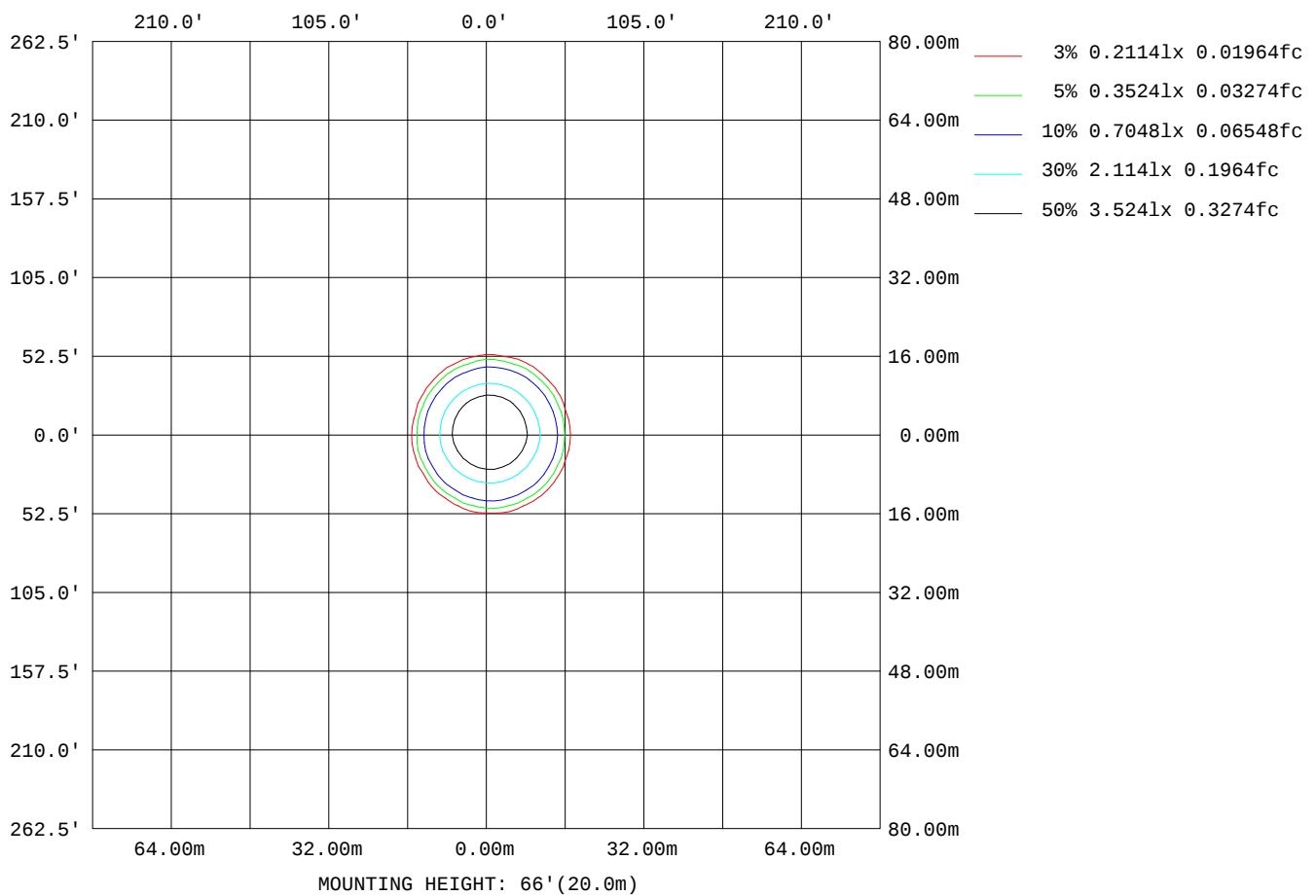
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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

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-CRI90-55D	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



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

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-CRI90-55D	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

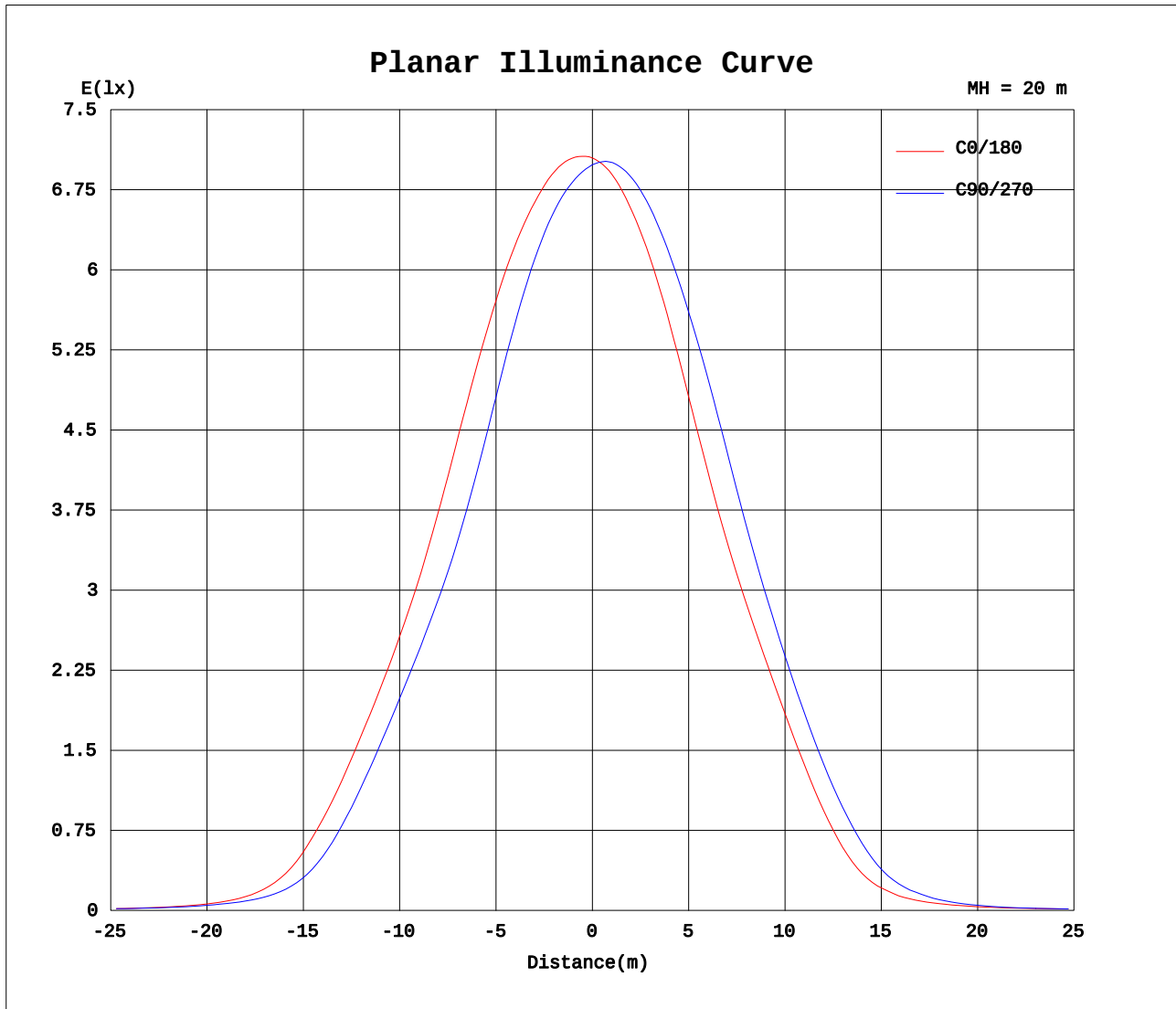
AvgL	cd/m2
L_0~180(65)av	10107
L_0~180(75)av	9640
L_0~180(85)av	2626
L_90~270(65)av	9893
L_90~270(75)av	9572
L_90~270(85)av	2660
L_45(65)av	9970
L_45(75)av	9573
L_45(85)av	2670

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-CRI90-55D	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	2798	2798	2798	2798	2798	2798	2798	2798	2798	2798	2798	2798	2798	2798	2798	2798	2798	2798	2798
5	2796	2781	2755	2738	2717	2704	2686	2677	2663	2664	2662	2675	2679	2693	2718	2736	2764	2781	2804
10	2676	2645	2587	2552	2501	2473	2433	2413	2375	2374	2366	2398	2413	2447	2502	2534	2582	2615	2670
15	2423	2371	2277	2212	2133	2088	2023	1996	1952	1954	1949	1991	2007	2057	2140	2191	2265	2313	2396
20	2018	1958	1854	1793	1708	1659	1590	1562	1528	1535	1530	1563	1571	1599	1672	1728	1825	1883	1978
25	1557	1510	1431	1395	1326	1293	1230	1201	1163	1166	1143	1171	1162	1176	1231	1272	1356	1402	1492
30	1122	1078	1025	991	917	883	822	781	729	720	683	707	688	693	742	777	855	888	978
35	614	582	550	515	451	418	368	332	291	281	256	265	250	252	282	306	361	387	459
40	201	192	184	170	147	143	124	114	102	97.2	89.0	89.8	86.7	88.2	96.9	105	122	128	154
45	70.4	69.4	68.9	66.0	60.6	58.6	56.0	53.9	50.0	47.6	43.6	42.7	40.8	40.9	43.1	44.1	47.9	49.7	56.0
50	33.1	33.5	33.2	32.8	31.5	31.4	31.0	30.9	29.9	28.9	27.2	26.6	25.9	25.9	26.2	26.0	26.6	26.5	27.7
55	23.2	23.2	22.9	22.7	21.9	21.7	21.1	21.0	20.2	19.7	18.7	18.4	18.0	18.0	18.4	18.4	18.9	19.1	20.0
60	16.1	16.1	15.5	15.3	14.7	14.5	13.9	13.7	13.2	13.0	12.5	12.5	12.2	12.1	12.4	12.5	13.0	13.3	14.0
65	11.1	11.1	10.7	10.7	10.3	10.2	9.89	9.73	9.51	9.51	9.34	9.34	9.17	9.06	9.12	9.18	9.44	9.58	9.97
70	8.42	8.45	8.37	8.38	8.33	8.34	8.25	8.21	8.07	8.04	7.93	7.91	7.76	7.67	7.69	7.66	7.78	7.81	7.93
75	6.02	6.09	6.01	6.10	6.03	6.12	6.04	6.13	6.03	6.10	6.00	6.02	5.83	5.69	5.72	5.59	5.66	5.59	5.73
80	3.07	3.17	3.09	3.20	3.13	3.25	3.17	3.27	3.18	2.99	3.14	3.23	3.00	2.87	2.93	2.82	2.90	2.81	2.91
85	0.50	0.57	0.53	0.58	0.55	0.60	0.60	0.62	0.64	0.62	0.69	0.69	0.59	0.52	0.60	0.57	0.57	0.53	0.50
90	0.39	0.40	0.40	0.40	0.40	0.40	0.41	0.42	0.43	0.43	0.44	0.45	0.39	0.38	0.38	0.38	0.41	0.38	0.37
95	0.44	0.44	0.43	0.44	0.43	0.44	0.44	0.46	0.45	0.47	0.46	0.47	0.45	0.43	0.43	0.42	0.43	0.42	0.42
100	0.49	0.50	0.49	0.50	0.50	0.52	0.52	0.54	0.54	0.55	0.55	0.56	0.55	0.54	0.53	0.52	0.52	0.50	0.50
105	0.61	0.61	0.62	0.64	0.66	0.68	0.72	0.74	0.77	0.78	0.81	0.80	0.82	0.81	0.78	0.76	0.72	0.71	0.68
110	0.93	0.93	0.97	1.00	1.08	1.13	1.22	1.26	1.35	1.37	1.43	1.41	1.45	1.43	1.35	1.31	1.22	1.18	1.10
115	1.62	1.64	1.73	1.79	1.93	2.02	2.19	2.27	2.42	2.45	2.54	2.50	2.54	2.51	2.35	2.28	2.12	2.05	1.90
120	2.77	2.81	2.97	3.07	3.30	3.44	3.70	3.82	4.02	4.06	4.18	4.11	4.14	4.07	3.84	3.71	3.48	3.35	3.14
125	4.43	4.50	4.73	4.89	5.21	5.43	5.77	5.92	6.19	6.24	6.37	6.26	6.28	6.17	5.85	5.65	5.33	5.14	4.86
130	6.59	6.70	7.00	7.23	7.64	7.89	8.32	8.51	8.83	8.88	9.04	8.91	8.89	8.71	8.36	8.09	7.68	7.43	7.10
135	9.22	9.36	9.71	9.99	10.5	10.8	11.2	11.5	11.8	11.9	12.0	11.9	11.9	11.7	11.2	10.9	10.5	10.1	9.75
140	12.2	12.3	12.7	13.0	13.5	13.8	14.3	14.6	14.9	15.0	15.1	15.0	15.0	14.8	14.3	14.0	13.5	13.1	12.7
145	15.2	15.3	15.6	16.0	16.4	16.8	17.3	17.5	17.7	17.8	18.0	17.9	17.9	17.7	17.2	16.9	16.4	16.1	15.7
150	17.9	18.0	18.3	18.6	19.0	19.3	19.7	19.9	20.1	20.2	20.3	20.3	20.2	20.0	19.7	19.5	19.1	18.8	18.4
155	20.1	20.1	20.3	20.5	20.8	21.1	21.5	21.6	21.7	21.7	21.9	21.9	21.8	21.7	21.5	21.4	21.2	21.0	20.8
160	21.6	21.5	21.6	21.7	21.9	22.2	22.4	22.4	22.4	22.4	22.6	22.7	22.6	22.6	22.5	22.4	22.4	22.4	22.3
165	22.4	22.3	22.1	22.2	22.4	22.6	22.7	22.8	22.7	22.8	22.9	23.2	23.1	23.1	23.0	23.0	23.0	23.1	23.1
170	23.1	22.9	22.8	22.7	22.8	22.9	23.0	23.0	23.1	23.3	23.6	23.8	23.5	23.6	23.6	23.5	23.4	23.4	23.5
175	23.7	23.6	23.5	23.6	23.6	23.4	23.3	23.4	23.7	24.0	24.2	24.2	24.0	24.0	24.1	24.1	23.9	23.8	23.8
180	24.4	24.3	24.2	24.3	24.1	24.0	24.1	24.1	24.3	24.6	24.6	24.5	24.4	24.3	24.3	24.3	24.2	24.0	24.1

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-CRI90-55D	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

Table--2

UNIT: cd

C (DEG) γ (DEG)	285	300	315	330	345														
0	2798	2798	2798	2798	2798														
5	2815	2824	2821	2818	2805														
10	2703	2733	2724	2718	2687														
15	2452	2498	2478	2468	2432														
20	2026	2081	2062	2067	2030														
25	1528	1582	1573	1591	1569														
30	1011	1081	1082	1106	1104														
35	485	550	562	586	587														
40	155	180	187	198	192														
45	57.8	64.6	67.9	70.5	67.6														
50	28.1	30.2	31.0	31.9	31.8														
55	20.4	21.5	21.9	22.4	22.5														
60	14.3	15.1	15.3	15.8	15.8														
65	10.1	10.5	10.7	11.0	10.9														
70	7.98	8.13	8.17	8.29	8.27														
75	5.68	5.81	5.74	5.88	5.78														
80	2.83	2.91	2.83	2.93	2.84														
85	0.48	0.46	0.44	0.44	0.40														
90	0.37	0.36	0.35	0.36	0.36														
95	0.41	0.41	0.40	0.41	0.40														
100	0.49	0.49	0.47	0.47	0.47														
105	0.66	0.63	0.62	0.60	0.60														
110	1.06	0.99	0.97	0.94	0.95														
115	1.84	1.72	1.70	1.64	1.66														
120	3.05	2.89	2.85	2.78	2.83														
125	4.73	4.52	4.48	4.40	4.47														
130	6.91	6.67	6.62	6.53	6.62														
135	9.55	9.28	9.23	9.13	9.27														
140	12.5	12.2	12.2	12.0	12.2														
145	15.5	15.2	15.1	15.0	15.2														
150	18.2	18.0	17.9	17.8	17.9														
155	20.6	20.3	20.2	20.0	20.1														
160	22.1	21.9	21.7	21.6	21.6														
165	23.0	22.8	22.5	22.4	22.5														
170	23.5	23.4	23.3	23.3	23.3														
175	23.9	24.1	24.1	24.0	23.9														
180	24.1	24.3	24.6	24.6	24.5														

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: