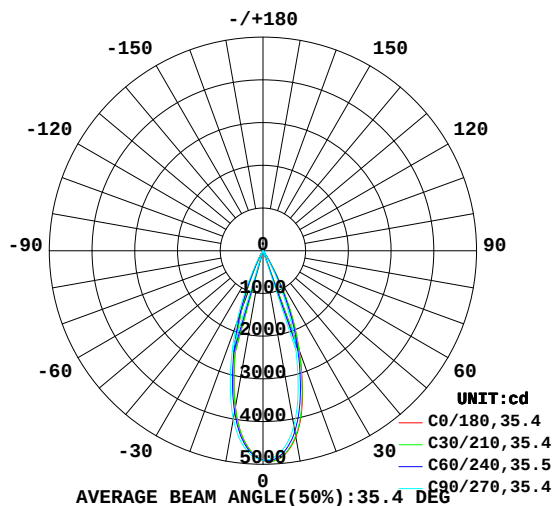


LUMINAIRE PHOTOMETRIC TEST REPORT

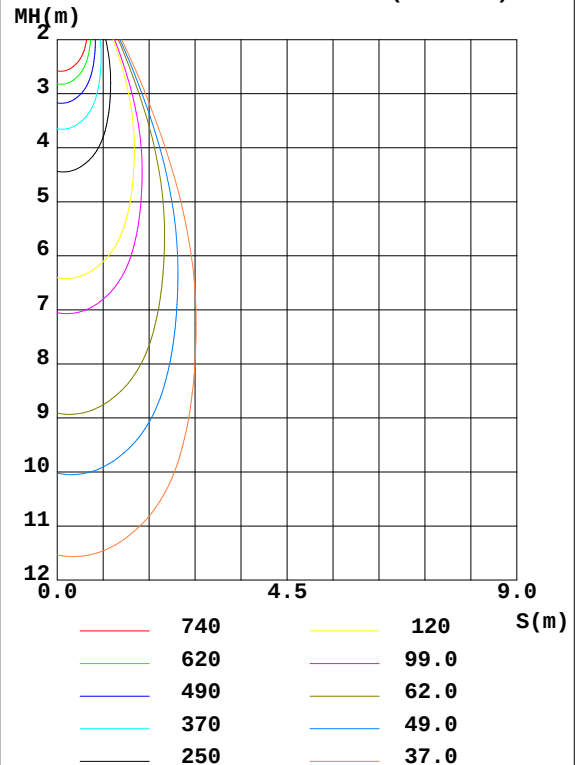
NAME: VM070-VF73RA01-20W	TYPE: indoor lights	WEIGHT: 1
SPEC.: 3000K-CRI90-38D	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 96.02 lm/W
MODEL	VM070-VF73RA01-20W	Imax(cd)	4941	S/MH(C0/180)	0.51	
NOMINAL POWER(W)	20	LOR(%)	100.0	S/MH(C90/270)	0.55	
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	1872.0	η UP, DN(C0-180)	1.2, 52.0	
NOMINAL FLUX(lm)	1872.01	CIE CLASS	DIRECT	η UP, DN(C180-360)	1.3, 45.6	
LAMPS INSIDE	1	η up(%)	2.4	CIBSE SHR NOM	0.50	
TEST VOLTAGE(V)	230	η down(%)	97.6	CIBSE SHR MAX	0.60	

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:

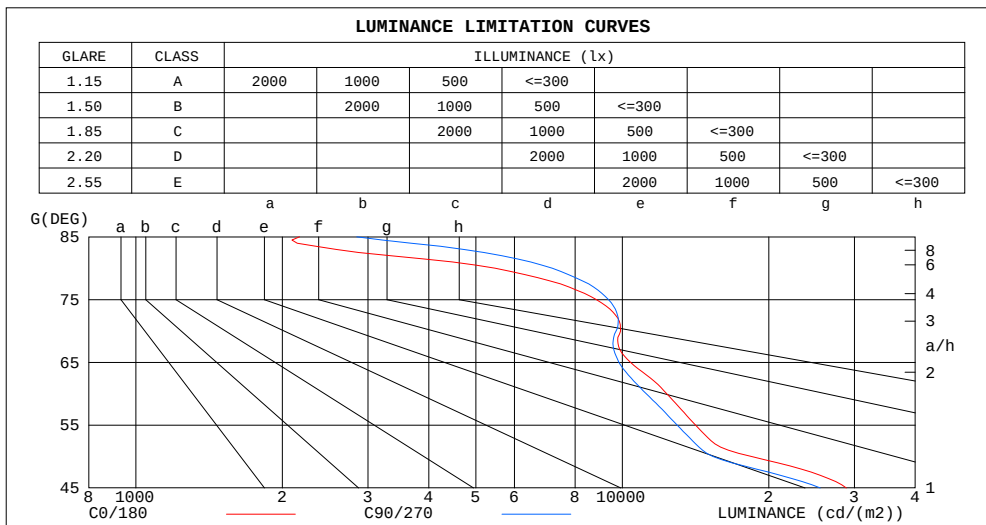
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	4427	4377	4162	3928	3719	3743	4002	4252	0- 10	428.9	428.9	22.9,22.9
20	2478	2456	2103	1748	1449	1452	1816	2178	10- 20	831.0	1260	67.3,67.3
30	504.4	494.7	309.7	178.2	123.5	114.0	189.7	322.7	20- 30	440.7	1701	90.8,90.8
40	59.12	59.90	56.55	52.19	49.25	48.40	52.12	54.17	30- 40	64.82	1765	94.3,94.3
50	27.99	28.62	23.43	20.60	19.34	19.41	20.89	22.91	40- 50	29.24	1795	95.9,95.9
60	14.59	14.78	13.30	12.00	11.20	11.35	12.15	13.30	50- 60	15.35	1810	96.7,96.7
70	8.021	8.056	7.890	7.660	7.414	7.442	7.793	7.783	60- 70	9.731	1820	97.2,97.2
80	2.248	2.881	2.961	3.168	2.646	2.902	2.732	2.462	70- 80	5.766	1826	97.5,97.5
90	0.4158	0.4196	0.4223	0.4663	0.4419	0.4290	0.3978	0.3738	80- 90	1.077	1827	97.6,97.6
100	0.5015	0.5036	0.5016	0.5199	0.5370	0.5167	0.5151	0.4821	90-100	0.4951	1827	97.6,97.6
110	0.6203	0.6117	0.6317	0.6750	0.7708	0.7637	0.6988	0.6304	100-110	0.6069	1828	97.6,97.6
120	1.318	1.318	1.650	2.079	2.615	2.594	2.096	1.648	110-120	1.090	1829	97.7,97.7
130	4.854	4.890	5.831	6.880	7.939	7.818	6.740	5.686	120-130	3.374	1832	97.9,97.9
140	12.05	12.14	13.46	14.91	16.27	16.14	14.64	13.18	130-140	7.657	1840	98.3,98.3
150	20.66	20.71	21.93	23.14	24.32	24.19	23.04	21.67	140-150	11.46	1851	98.9,98.9
160	25.54	25.64	26.13	26.18	26.37	26.51	26.73	25.99	150-160	11.46	1863	99.5,99.5
170	23.83	23.46	23.21	22.61	22.71	22.60	22.91	23.06	160-170	7.123	1870	99.9,99.9
180	21.74	21.73	21.13	21.66	21.76	21.72	21.14	21.66	170-180	2.105	1872	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-CRI90-38D	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	2170	2845
80	5474	7177
75	8839	9362
70	9915	9710
65	10398	9839
60	12339	11196
55	14137	12963
50	18411	15343
45	28873	25509

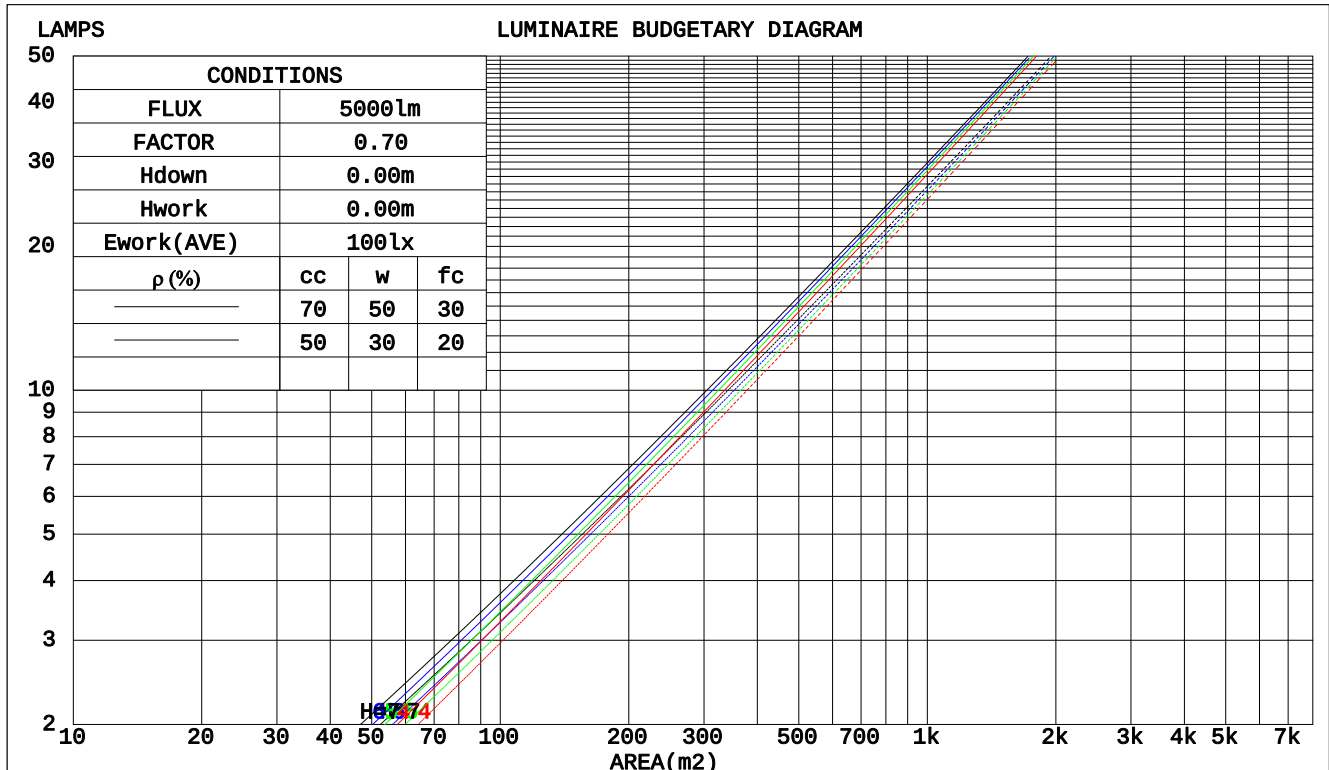
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: MEDIUM
 Temperature:28DEG
 Operators:LGL
 Test Date:2021-08-13

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-CRI90-38D	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	1.11	1.09	1.07	1.09	1.07	1.05	1.05	1.03	1.02	1.01	.99	.98	.97	.96	.95	.93
2.0	1.05	1.02	.99	1.03	1.00	.98	.00	.97	.95	.97	.95	.93	.94	.92	.91	.89
3.0	.00	.96	.93	.98	.95	.92	.96	.92	.90	.93	.90	.88	.90	.88	.87	.85
4.0	.95	.91	.87	.94	.90	.87	.92	.88	.85	.89	.86	.84	.87	.85	.83	.82
5.0	.91	.86	.83	.90	.85	.82	.88	.84	.81	.86	.83	.80	.84	.82	.80	.78
6.0	.87	.82	.79	.86	.82	.78	.84	.81	.78	.83	.80	.77	.82	.79	.76	.75
7.0	.83	.79	.75	.83	.78	.75	.81	.77	.75	.80	.77	.74	.79	.76	.73	.72
8.0	.80	.75	.72	.80	.75	.72	.78	.74	.72	.77	.74	.71	.76	.73	.71	.70
9.0	.77	.73	.69	.77	.72	.69	.76	.72	.69	.75	.71	.69	.74	.71	.68	.67
10.0	.74	.70	.67	.74	.70	.67	.73	.69	.66	.72	.69	.66	.71	.68	.66	.65



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-CRI90-38D	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	.154	.088	.028	.147	.084	.027	.133	.076	.024	.120	.069	.022	.108	.063	.020		
2.0	.144	.079	.024	.138	.076	.023	.126	.070	.022	.115	.065	.020	.105	.060	.019		
3.0	.135	.072	.021	.129	.069	.021	.120	.065	.020	.110	.060	.019	.102	.056	.017		
4.0	.127	.066	.019	.122	.064	.019	.114	.060	.018	.106	.057	.017	.098	.053	.016		
5.0	.120	.061	.018	.116	.059	.017	.108	.056	.017	.101	.054	.016	.095	.051	.015		
6.0	.113	.057	.016	.110	.056	.016	.104	.053	.015	.097	.051	.015	.092	.048	.014		
7.0	.108	.053	.015	.105	.052	.015	.099	.050	.014	.094	.048	.014	.089	.046	.014		
8.0	.103	.050	.014	.100	.049	.014	.095	.048	.014	.090	.046	.013	.086	.044	.013		
9.0	.099	.048	.013	.096	.047	.013	.092	.045	.013	.087	.044	.013	.083	.042	.012		
10.0	.095	.045	.013	.092	.045	.012	.088	.043	.012	.084	.042	.012	.081	.041	.012		

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	.165	.161	.151	.142	.110	.104	.098	.063	.060	.057	.020	.019	.019	
2.0	.171	.151	.135	.147	.130	.116	.101	.090	.081	.058	.052	.048	.019	.017	.016	
3.0	.157	.132	.112	.135	.114	.097	.093	.079	.068	.053	.046	.040	.017	.015	.013	
4.0	.146	.117	.095	.125	.101	.083	.086	.071	.058	.050	.041	.035	.016	.013	.011	
5.0	.136	.105	.083	.117	.091	.072	.080	.064	.051	.047	.037	.030	.015	.012	.010	
6.0	.127	.095	.073	.109	.083	.063	.076	.058	.045	.044	.034	.027	.014	.011	.009	
7.0	.120	.088	.065	.103	.076	.056	.071	.053	.040	.042	.031	.024	.013	.010	.008	
8.0	.114	.081	.058	.098	.070	.051	.068	.049	.036	.040	.029	.022	.013	.010	.007	
9.0	.109	.076	.053	.094	.066	.046	.065	.046	.033	.038	.027	.020	.012	.009	.007	
10.0	.104	.071	.049	.090	.062	.043	.062	.043	.030	.036	.026	.018	.012	.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-CRI90-38D						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	15.6	16.3	15.8	16.5	16.7	14.6	15.3	14.8	15.5	15.7	
	3H	15.9	16.6	16.2	16.8	17.0	15.0	15.7	15.3	15.9	16.2
	4H	16.1	16.7	16.4	17.0	17.2	15.3	15.9	15.6	16.2	16.4
	6H	16.1	16.7	16.5	17.0	17.3	15.4	16.0	15.8	16.3	16.6
	8H	16.1	16.7	16.4	17.0	17.3	15.4	16.0	15.8	16.3	16.6
	12H	16.1	16.6	16.4	16.9	17.2	15.4	16.0	15.8	16.3	16.6
4H	2H	15.6	16.3	15.9	16.5	16.8	14.7	15.3	15.0	15.6	15.8
	3H	16.1	16.6	16.4	16.9	17.3	15.3	15.9	15.7	16.2	16.5
	4H	16.3	16.9	16.7	17.2	17.5	15.7	16.2	16.1	16.5	16.9
	6H	16.4	16.9	16.9	17.3	17.7	15.9	16.4	16.3	16.7	17.1
	8H	16.4	16.9	16.9	17.2	17.7	15.9	16.4	16.4	16.8	17.2
	12H	16.4	16.8	16.8	17.2	17.6	15.9	16.3	16.4	16.7	17.2
8H	4H	16.4	16.8	16.8	17.2	17.6	15.8	16.2	16.2	16.6	17.0
	6H	16.5	16.9	17.0	17.3	17.8	16.1	16.4	16.5	16.8	17.3
	8H	16.5	16.8	17.0	17.3	17.8	16.1	16.4	16.6	16.9	17.4
	12H	16.5	16.7	17.0	17.2	17.7	16.1	16.4	16.6	16.8	17.4
12H	4H	16.3	16.7	16.8	17.1	17.6	15.7	16.1	16.2	16.5	17.0
	6H	16.5	16.8	17.0	17.3	17.8	16.0	16.3	16.5	16.8	17.3
	8H	16.5	16.8	17.0	17.2	17.8	16.1	16.4	16.6	16.8	17.4
Variations with the observer position at spacings:											
S = 1.0H	+ 0.8 / - 1.1					+ 0.8 / - 1.0					
1.5H	+ 0.9 / - 1.0					+ 0.8 / - 1.0					
2.0H	+ 2.3 / - 1.1					+ 1.9 / - 1.1					

CIE Pub.117, 1872 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 2.2$)

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-CRI90-38D	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

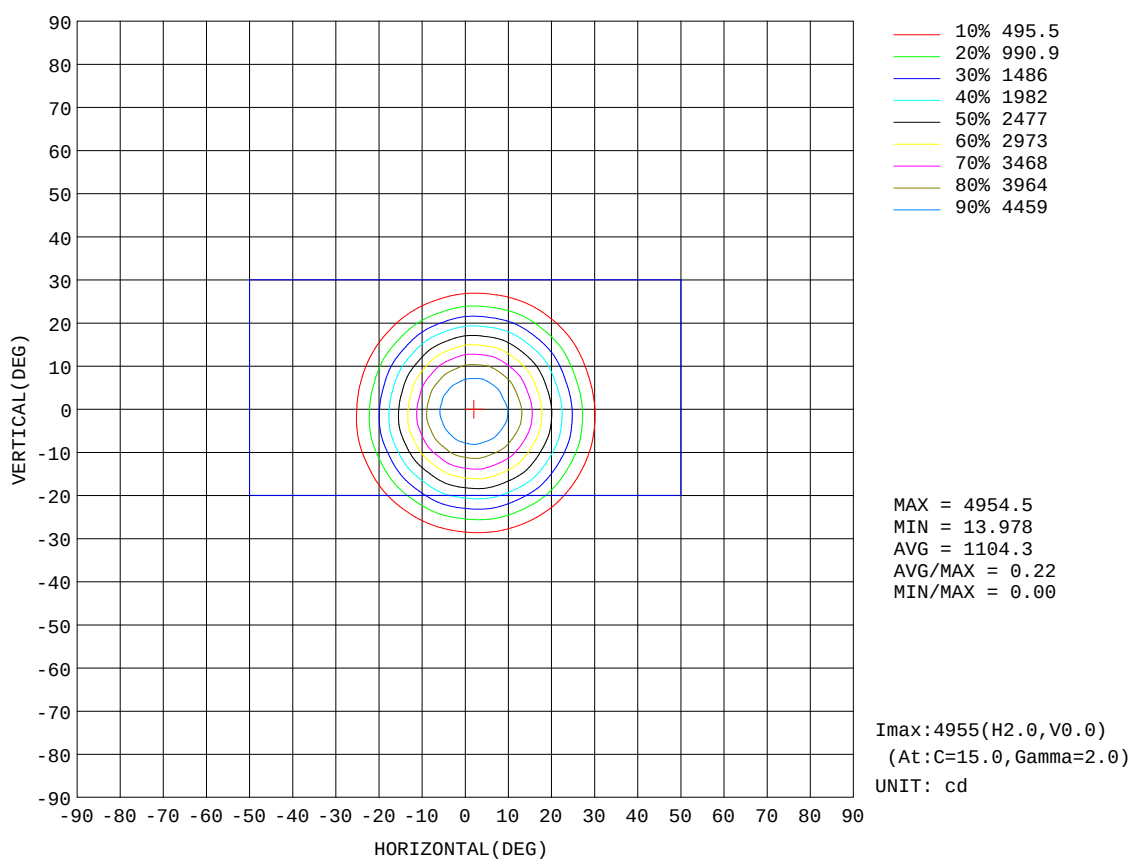
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	88	82	78	87	82	78	87	81	78	75
0.80	95	90	86	94	89	86	93	88	85	82
1.00	99	94	90	98	93	90	97	93	89	85
1.25	103	98	95	102	97	94	100	96	93	89
1.50	106	101	98	104	100	97	102	98	96	91
2.00	108	104	101	107	103	100	104	101	98	93
2.50	110	106	103	108	105	102	105	102	100	93
3.00	111	108	105	109	106	104	106	103	101	94
4.00	113	111	108	111	109	107	107	105	104	96
5.00	115	112	111	112	110	109	108	107	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-CRI90-38D	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

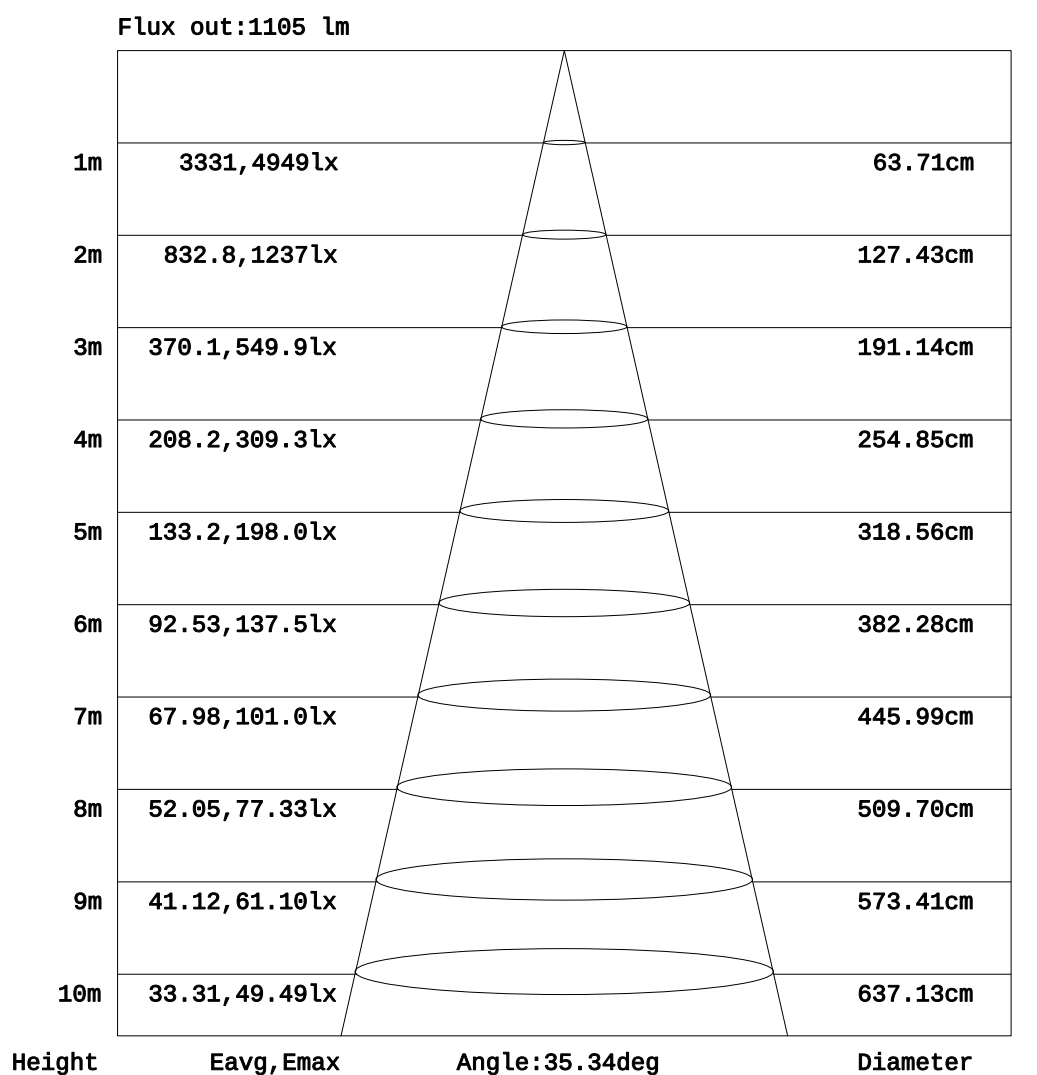


C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: MEDIUM
 Temperature: 28DEG
 Operators: LGL
 Test Date: 2021-08-13

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-CRI90-38D	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



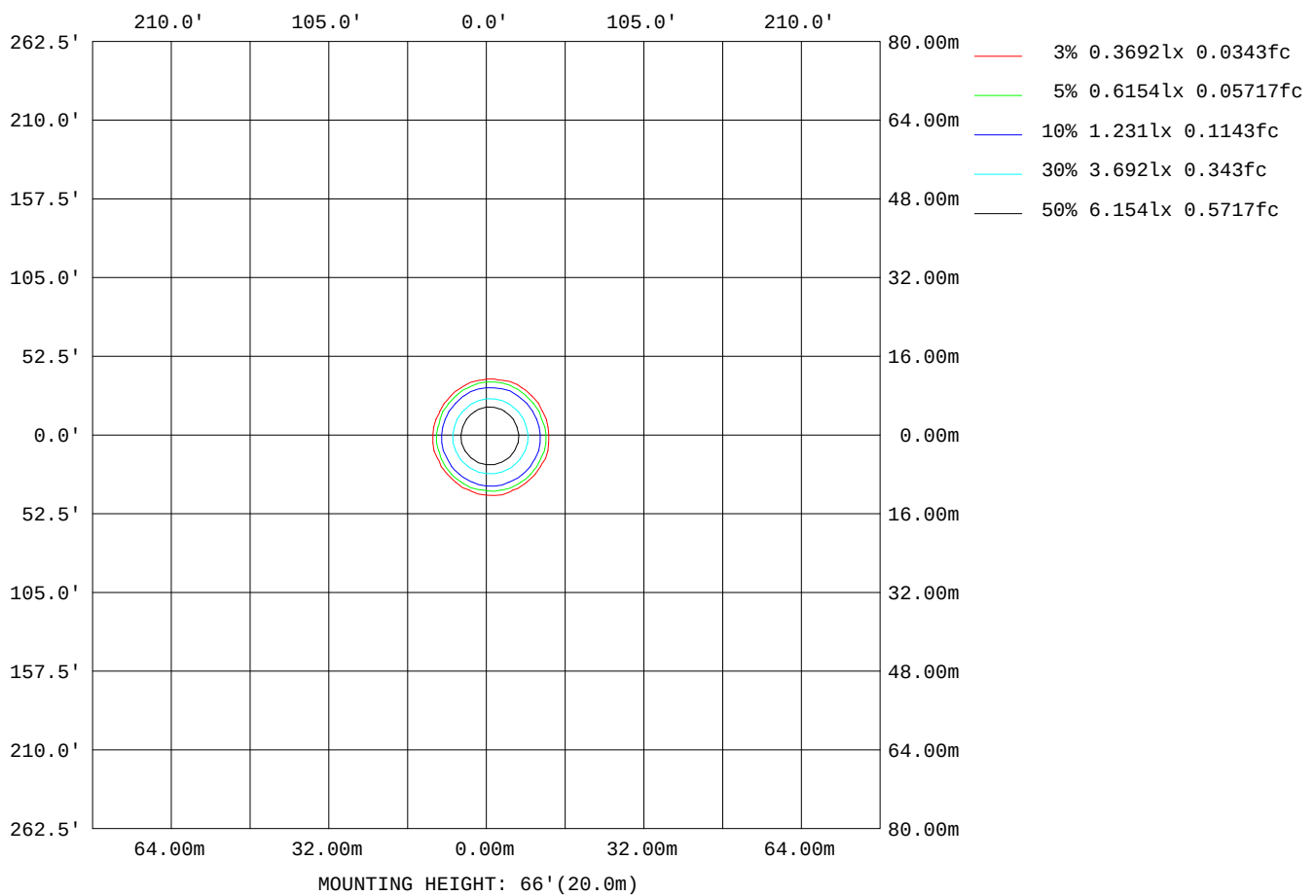
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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-CRI90-38D	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-CRI90-38D	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

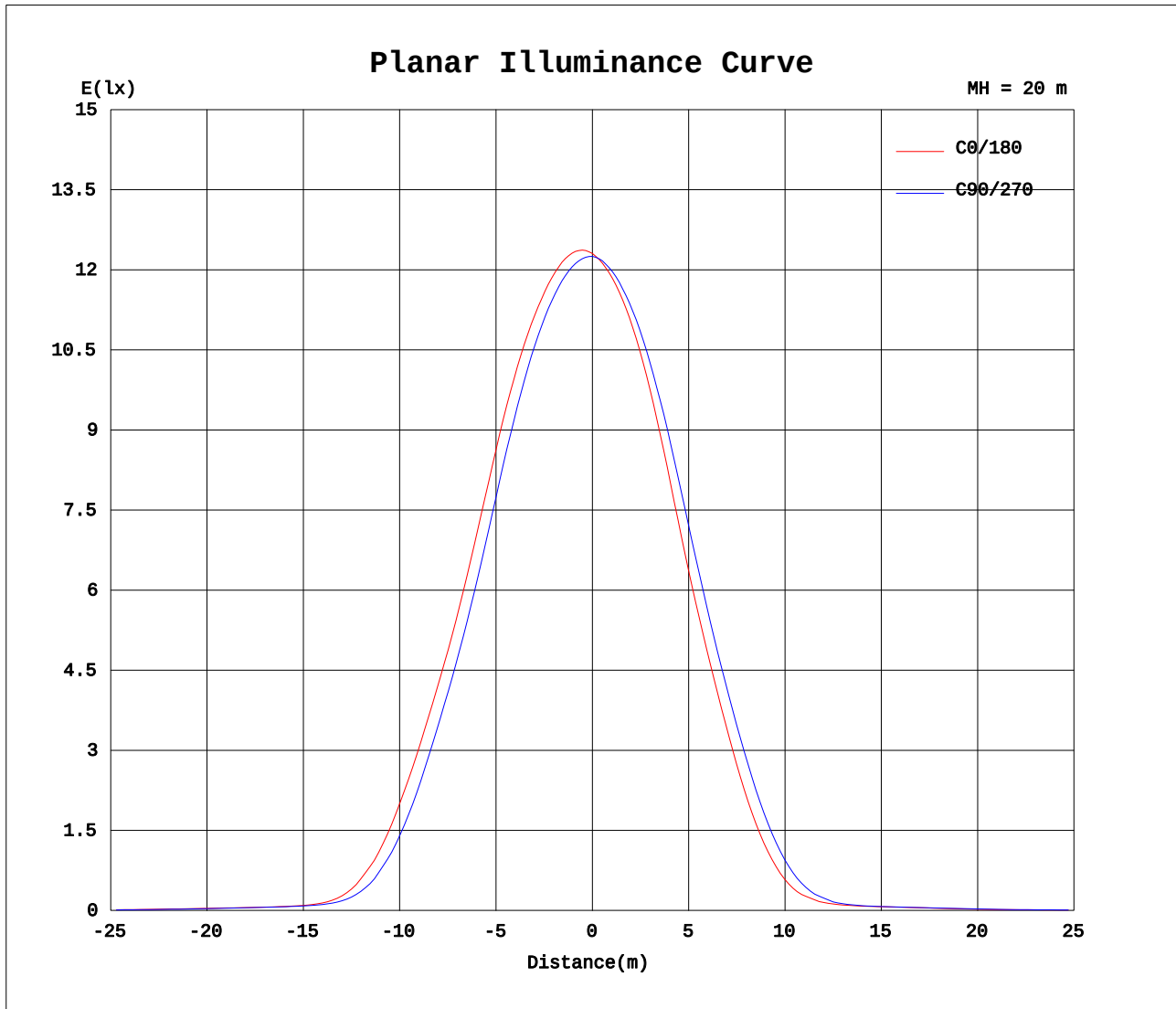
AvgL	cd/m2
L_0~180(65)av	9535
L_0~180(75)av	8838
L_0~180(85)av	2653
L_90~270(65)av	9530
L_90~270(75)av	9219
L_90~270(85)av	2784
L_45(65)av	9605
L_45(75)av	9163
L_45(85)av	2818

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-CRI90-38D	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	4904	4904	4904	4904	4904	4904	4904	4904	4904	4904	4904	4904	4904	4904	4904	4904	4904	4904	4904
5	4858	4873	4854	4844	4801	4780	4728	4702	4650	4627	4585	4582	4545	4530	4553	4557	4592	4614	4663
10	4427	4450	4399	4377	4293	4260	4162	4103	3981	3928	3829	3808	3719	3683	3728	3743	3829	3882	4002
15	3566	3610	3539	3510	3391	3328	3183	3088	2916	2837	2709	2671	2558	2507	2559	2589	2718	2792	2941
20	2478	2525	2466	2456	2331	2253	2103	2015	1842	1748	1609	1562	1449	1391	1436	1452	1580	1658	1816
25	1436	1504	1446	1421	1296	1225	1071	982	823	739	625	589	512	489	495	514	590	650	777
30	504	541	514	495	441	395	310	266	207	178	144	142	124	112	121	114	141	152	190
35	105	121	108	107	99.5	95.8	83.4	77.4	70.2	66.7	64.0	62.7	61.3	61.0	60.1	59.9	61.8	63.9	67.4
40	59.1	60.3	60.0	59.9	58.8	58.5	56.6	55.2	53.2	52.2	51.0	50.3	49.2	48.5	48.5	48.4	49.5	50.4	52.1
45	48.3	49.1	48.7	48.3	46.9	45.8	42.9	40.5	37.0	34.8	31.7	30.2	28.0	27.0	27.6	28.0	30.2	31.5	34.5
50	28.0	29.3	28.7	28.6	26.9	25.6	23.4	22.3	21.2	20.6	19.9	19.7	19.3	19.2	19.3	19.4	19.9	20.2	20.9
55	19.2	19.6	19.5	19.5	19.0	18.5	17.7	17.1	16.4	16.0	15.5	15.2	14.9	14.8	15.0	15.1	15.4	15.7	16.2
60	14.6	14.9	14.8	14.8	14.3	14.0	13.3	12.9	12.3	12.0	11.5	11.4	11.2	11.1	11.3	11.4	11.6	11.7	12.2
65	10.4	10.6	10.5	10.7	10.4	10.3	9.88	9.66	9.33	9.16	8.88	8.79	8.74	8.69	8.79	8.82	8.99	9.05	9.25
70	8.02	8.07	8.03	8.06	7.98	7.99	7.89	7.88	7.76	7.66	7.49	7.45	7.41	7.35	7.42	7.44	7.57	7.63	7.79
75	5.41	5.57	5.65	5.79	5.71	5.83	5.76	5.84	5.76	5.83	5.73	5.67	5.45	5.37	5.55	5.56	5.65	5.54	5.57
80	2.25	2.40	2.68	2.88	2.85	2.98	2.96	3.09	3.05	3.17	3.14	2.87	2.65	2.55	2.92	2.90	2.90	2.73	2.73
85	0.45	0.47	0.46	0.50	0.51	0.58	0.59	0.66	0.66	0.71	0.71	0.75	0.65	0.60	0.70	0.68	0.66	0.61	0.56
90	0.42	0.43	0.41	0.42	0.42	0.41	0.42	0.42	0.44	0.47	0.49	0.50	0.44	0.45	0.44	0.43	0.41	0.40	0.40
95	0.45	0.46	0.45	0.46	0.45	0.46	0.45	0.46	0.46	0.47	0.47	0.48	0.48	0.46	0.47	0.45	0.46	0.45	0.46
100	0.50	0.50	0.50	0.50	0.49	0.51	0.50	0.51	0.50	0.52	0.52	0.53	0.54	0.52	0.53	0.52	0.52	0.51	0.52
105	0.55	0.56	0.54	0.55	0.55	0.56	0.56	0.56	0.56	0.57	0.57	0.59	0.61	0.60	0.60	0.59	0.59	0.58	0.59
110	0.62	0.62	0.61	0.61	0.61	0.62	0.63	0.64	0.66	0.67	0.69	0.71	0.77	0.78	0.77	0.76	0.74	0.73	0.70
115	0.78	0.76	0.76	0.76	0.79	0.82	0.88	0.92	1.00	1.05	1.14	1.18	1.34	1.38	1.34	1.32	1.24	1.19	1.09
120	1.32	1.28	1.30	1.32	1.41	1.49	1.65	1.77	1.96	2.08	2.28	2.36	2.62	2.70	2.63	2.59	2.41	2.30	2.10
125	2.62	2.52	2.59	2.63	2.82	2.96	3.26	3.46	3.80	4.00	4.33	4.45	4.81	4.93	4.80	4.74	4.46	4.29	3.95
130	4.85	4.71	4.83	4.89	5.19	5.39	5.83	6.12	6.61	6.88	7.33	7.49	7.94	8.08	7.91	7.82	7.46	7.21	6.74
135	8.07	7.91	8.06	8.13	8.51	8.79	9.31	9.68	10.3	10.6	11.1	11.3	11.8	12.0	11.8	11.7	11.3	11.0	10.4
140	12.1	11.9	12.0	12.1	12.6	12.9	13.5	13.9	14.5	14.9	15.5	15.7	16.3	16.5	16.2	16.1	15.6	15.3	14.6
145	16.4	16.3	16.4	16.5	16.9	17.3	17.9	18.3	18.9	19.3	19.9	20.1	20.7	20.8	20.6	20.5	20.0	19.7	19.1
150	20.7	20.5	20.6	20.7	21.1	21.4	21.9	22.3	22.8	23.1	23.6	23.8	24.3	24.4	24.3	24.2	23.8	23.6	23.0
155	23.9	23.8	23.9	24.0	24.2	24.5	24.9	25.2	25.4	25.6	25.9	25.9	26.3	26.4	26.3	26.4	26.2	26.1	25.8
160	25.5	25.5	25.6	25.6	25.8	26.0	26.1	26.2	26.2	26.2	26.3	26.2	26.4	26.4	26.4	26.5	26.7	26.8	26.7
165	25.4	25.3	25.2	25.4	25.4	25.5	25.4	25.3	25.0	24.9	24.6	24.6	24.7	24.7	24.6	24.8	25.0	25.3	25.5
170	23.8	23.7	23.6	23.5	23.4	23.4	23.2	23.0	22.6	22.6	22.7	22.7	22.7	22.7	22.8	22.6	22.5	22.7	22.9
175	22.1	22.0	21.9	21.9	21.8	21.4	21.1	21.1	21.2	21.6	21.7	21.4	21.6	21.6	21.7	21.7	21.4	21.2	21.2
180	21.7	21.7	21.6	21.7	21.4	21.1	21.1	21.0	21.2	21.7	21.5	21.4	21.8	21.7	21.6	21.7	21.4	21.1	21.1

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-CRI90-38D	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

Table--2

UNIT: cd

C(DEG) γ (DEG)	285	300	315	330	345													
0	4904	4904	4904	4904	4904													
5	4696	4749	4772	4813	4823													
10	4080	4198	4252	4334	4354													
15	3039	3214	3292	3432	3467													
20	1915	2093	2178	2326	2370													
25	864	1017	1111	1251	1303													
30	219	281	323	389	422													
35	70.6	77.2	81.8	88.2	91.7													
40	52.9	53.9	54.2	54.9	55.9													
45	36.6	40.0	41.9	44.5	45.7													
50	21.3	22.2	22.9	24.4	25.2													
55	16.6	17.2	17.6	18.1	18.4													
60	12.4	13.0	13.3	13.8	13.9													
65	9.43	9.81	9.92	10.1	10.00													
70	7.78	7.83	7.78	7.84	7.78													
75	5.44	5.48	5.36	5.37	5.15													
80	2.58	2.59	2.46	2.49	2.05													
85	0.52	0.47	0.44	0.39	0.38													
90	0.38	0.38	0.37	0.38	0.37													
95	0.44	0.43	0.41	0.42	0.41													
100	0.50	0.50	0.48	0.48	0.48													
105	0.56	0.55	0.54	0.55	0.54													
110	0.67	0.65	0.63	0.62	0.62													
115	1.03	0.93	0.89	0.83	0.82													
120	1.96	1.75	1.65	1.51	1.46													
125	3.71	3.38	3.19	2.94	2.86													
130	6.42	5.95	5.69	5.33	5.18													
135	10.01	9.42	9.09	8.64	8.47													
140	14.2	13.6	13.2	12.7	12.5													
145	18.6	18.0	17.6	17.1	16.9													
150	22.6	22.1	21.7	21.2	21.0													
155	25.5	25.1	24.7	24.3	24.2													
160	26.6	26.3	26.0	25.8	25.7													
165	25.4	25.4	25.2	25.2	25.3													
170	23.0	23.1	23.1	23.3	23.4													
175	21.3	21.7	21.8	21.7	21.7													
180	21.0	21.2	21.7	21.5	21.4													

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: