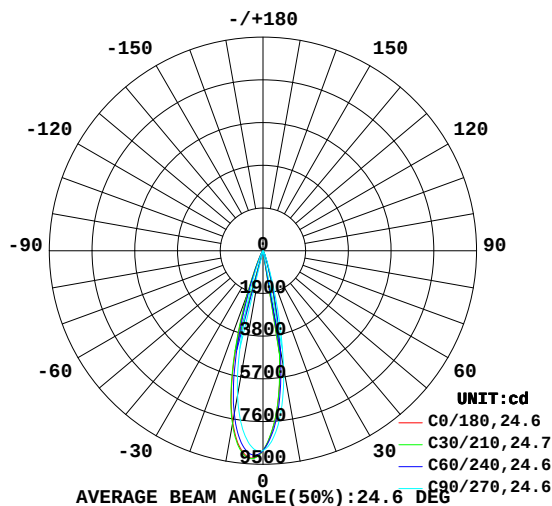


LUMINAIRE PHOTOMETRIC TEST REPORT

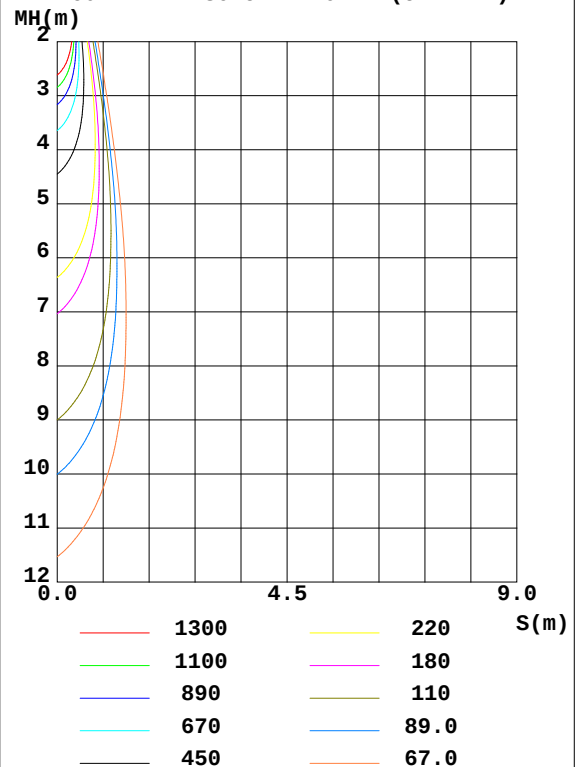
NAME: VM070-VF73RA01-20W	TYPE: indoor lights	WEIGHT: 1
SPEC.: 3000K-CRI90-24D	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 95.51 lm/W
MODEL	VM070-VF73RA01-20W	Imax(cd)	9264	S/MH(C0/180)	0.48	
NOMINAL POWER(W)	20	LOR(%)	100.0	S/MH(C90/270)	0.42	
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	1863.2	η UP, DN(C0-180)	1.3, 43.7	
NOMINAL FLUX(lm)	1863.21	CIE CLASS	DIRECT	η UP, DN(C180-360)	1.2, 53.8	
LAMPS INSIDE	1	η up(%)	2.5	CIBSE SHR NOM	0.00	
TEST VOLTAGE(V)	230	η down(%)	97.5	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:

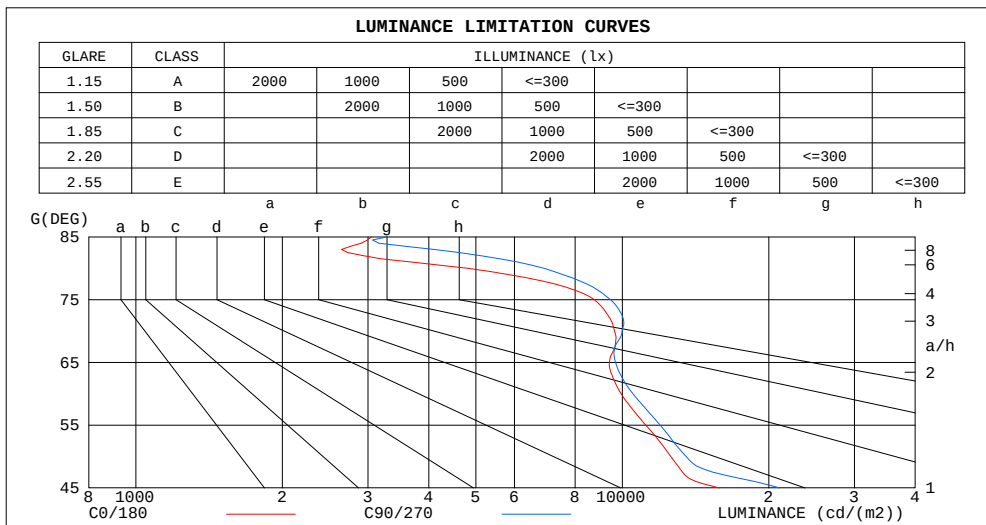
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	4055	4251	5251	6928	7754	7568	6529	4876	0- 10	703.5	703.5	37.8,37.8
20	456.9	469.5	629.7	1252	1877	1795	1084	552.0	10- 20	816.0	1519	81.6,81.6
30	85.12	89.33	115.5	188.4	239.6	227.3	167.0	106.1	20- 30	182.5	1702	91.3,91.3
40	41.59	43.03	47.83	58.43	66.49	63.99	53.34	43.78	30- 40	52.24	1754	94.1,94.1
50	19.16	19.05	20.63	25.33	33.26	32.39	24.15	20.00	40- 50	29.60	1784	95.7,95.7
60	11.77	11.51	12.48	14.46	16.09	15.83	14.39	12.44	50- 60	15.92	1800	96.6,96.6
70	7.810	7.437	8.115	8.667	9.060	9.065	8.862	8.293	60- 70	10.60	1810	97.2,97.2
80	1.973	1.756	2.842	3.233	3.177	3.582	3.242	2.592	70- 80	6.110	1816	97.5,97.5
90	0.4605	0.4768	0.4793	0.4750	0.3769	0.3802	0.4242	0.4707	80- 90	1.133	1818	97.5,97.5
100	0.5882	0.5845	0.5698	0.5573	0.5247	0.5051	0.5677	0.5949	90-100	0.5430	1818	97.6,97.6
110	0.7687	0.7713	0.7087	0.6684	0.6611	0.6479	0.6804	0.7369	100-110	0.6638	1819	97.6,97.6
120	1.628	1.583	1.266	0.9929	0.9107	0.9199	1.043	1.382	110-120	0.8745	1820	97.7,97.7
130	7.006	6.768	5.263	3.418	2.881	3.034	4.005	5.967	120-130	2.247	1822	97.8,97.8
140	18.11	17.69	15.55	12.30	10.88	11.23	13.25	16.57	130-140	7.030	1829	98.2,98.2
150	27.28	26.85	25.90	23.64	22.40	22.58	24.35	26.61	140-150	12.42	1841	98.8,98.8
160	26.98	26.90	28.32	28.61	28.81	28.54	29.12	28.22	150-160	12.63	1854	99.5,99.5
170	18.66	18.62	21.66	23.95	25.20	24.82	23.61	20.81	160-170	7.401	1861	99.9,99.9
180	16.61	17.07	17.03	17.40	16.62	17.06	17.03	17.39	170-180	1.879	1863	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-CRI90-24D	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	3048	3289
80	4796	6893
75	8755	9446
70	9639	9994
65	9405	9682
60	9938	10514
55	11174	11963
50	12581	13516
45	15832	21039

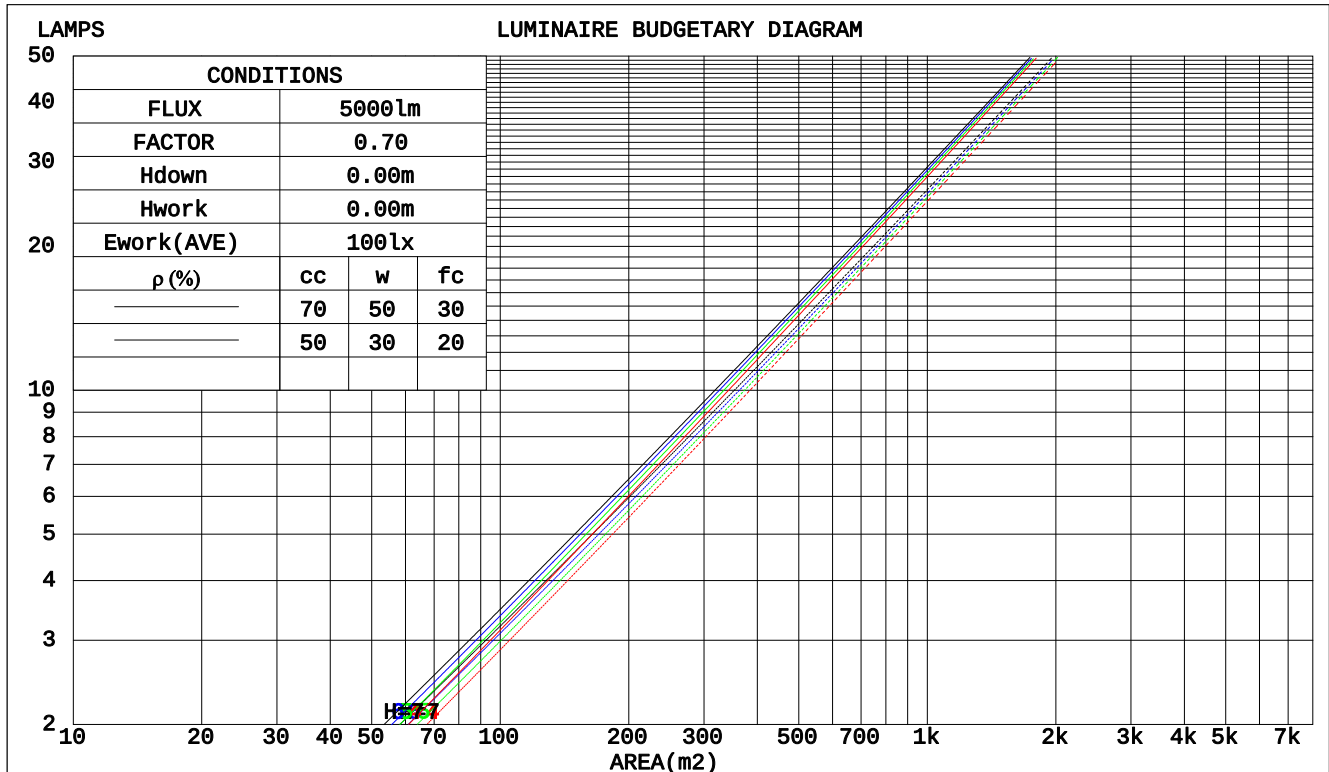
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: MEDIUM
 Temperature:28DEG
 Operators:LGL
 Test Date:2021-08-13

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-CRI90-24D	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	1.10	1.08	1.06	1.05	1.04	1.03	1.01	1.00	.99	.97	.97	.96	.94
2.0	1.07	1.04	1.01	1.05	1.02	.00	1.01	.99	.97	.98	.96	.95	.95	.94	.93	.91
3.0	1.02	.98	.95	1.01	.97	.95	.98	.95	.93	.95	.93	.91	.93	.91	.89	.88
4.0	.98	.94	.91	.97	.93	.90	.95	.91	.89	.92	.90	.88	.90	.88	.87	.85
5.0	.94	.90	.87	.93	.90	.87	.92	.88	.86	.90	.87	.85	.88	.86	.84	.83
6.0	.91	.87	.84	.90	.87	.84	.89	.86	.83	.87	.85	.82	.86	.84	.82	.81
7.0	.88	.84	.81	.88	.84	.81	.86	.83	.81	.85	.82	.80	.84	.81	.79	.78
8.0	.86	.82	.79	.85	.81	.79	.84	.81	.78	.83	.80	.78	.82	.79	.77	.76
9.0	.83	.79	.77	.83	.79	.77	.82	.79	.76	.81	.78	.76	.80	.78	.76	.75
10.0	.81	.77	.75	.81	.77	.75	.80	.77	.74	.79	.76	.74	.78	.76	.74	.73



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-CRI90-24D	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	.141	.080	.025	.134	.076	.024	.120	.069	.022	.107	.062	.020	.095	.055	.018		
2.0	.130	.071	.022	.124	.068	.021	.113	.063	.019	.102	.057	.018	.092	.052	.016		
3.0	.121	.064	.019	.116	.062	.019	.106	.057	.017	.097	.053	.016	.089	.049	.015		
4.0	.113	.059	.017	.108	.057	.017	.100	.053	.016	.092	.050	.015	.085	.046	.014		
5.0	.106	.054	.016	.102	.052	.015	.095	.049	.015	.088	.046	.014	.082	.044	.013		
6.0	.100	.050	.014	.096	.049	.014	.090	.046	.013	.084	.044	.013	.079	.041	.012		
7.0	.094	.047	.013	.091	.045	.013	.086	.043	.012	.081	.041	.012	.076	.039	.012		
8.0	.089	.044	.012	.087	.043	.012	.082	.041	.012	.077	.039	.011	.073	.037	.011		
9.0	.085	.041	.011	.083	.040	.011	.078	.039	.011	.074	.037	.011	.070	.036	.010		
10.0	.081	.039	.011	.079	.038	.011	.075	.037	.010	.072	.036	.010	.068	.034	.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	.187	.176	.167	.160	.151	.143	.110	.104	.099	.063	.060	.058	.020	.019	.019		
2.0	.170	.152	.137	.145	.131	.118	.100	.090	.082	.057	.053	.048	.018	.017	.016		
3.0	.155	.132	.114	.133	.114	.099	.091	.079	.070	.053	.046	.041	.017	.015	.013		
4.0	.142	.117	.098	.122	.101	.085	.084	.071	.060	.049	.041	.035	.016	.013	.012		
5.0	.132	.105	.085	.113	.091	.074	.078	.063	.052	.045	.037	.031	.015	.012	.010		
6.0	.123	.095	.075	.106	.082	.065	.073	.058	.046	.042	.034	.027	.014	.011	.009		
7.0	.115	.087	.067	.099	.075	.058	.068	.053	.041	.040	.031	.025	.013	.010	.008		
8.0	.109	.080	.060	.093	.069	.053	.065	.049	.037	.038	.029	.022	.012	.009	.007		
9.0	.103	.074	.055	.089	.065	.048	.061	.045	.034	.036	.027	.020	.012	.009	.007		
10.0	.098	.070	.051	.084	.060	.044	.059	.043	.031	.034	.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-CRI90-24D						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						11.5	12.2	11.8	12.4	12.5	12.0
3H						12.6	13.2	12.8	13.4	13.6	13.0
4H						13.0	13.5	13.3	13.8	14.0	13.5
6H						13.2	13.7	13.5	14.0	14.3	14.1
8H						13.2	13.7	13.5	14.0	14.3	13.8
12H						13.1	13.7	13.5	14.0	14.3	14.4
4H 2H						11.9	12.5	12.2	12.7	13.0	13.8
3H						13.1	13.6	13.4	13.9	14.2	14.6
4H						13.5	14.0	13.9	14.3	14.7	14.9
6H						13.8	14.2	14.2	14.6	15.0	15.0
8H						13.8	14.2	14.2	14.6	15.0	15.4
12H						13.8	14.1	14.2	14.5	15.0	15.8
8H 4H						13.6	14.0	14.0	14.4	14.8	14.6
6H						13.9	14.2	14.4	14.7	15.1	14.7
8H						13.9	14.2	14.4	14.7	15.2	15.0
12H						13.9	14.2	14.4	14.6	15.2	15.2
12H 4H						13.6	13.9	14.0	14.3	14.8	14.7
6H						13.9	14.2	14.4	14.6	15.1	14.6
8H						13.9	14.2	14.4	14.6	15.2	14.9
Variations with the observer position at spacings:											
S = 1.0H						+ 0.6 / - 0.6			+ 0.5 / - 0.6		
1.5H						+ 0.8 / - 0.5			+ 0.8 / - 0.5		
2.0H						+ 0.9 / - 0.6			+ 1.6 / - 0.7		

CIE Pub.117, 1863 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-CRI90-24D	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

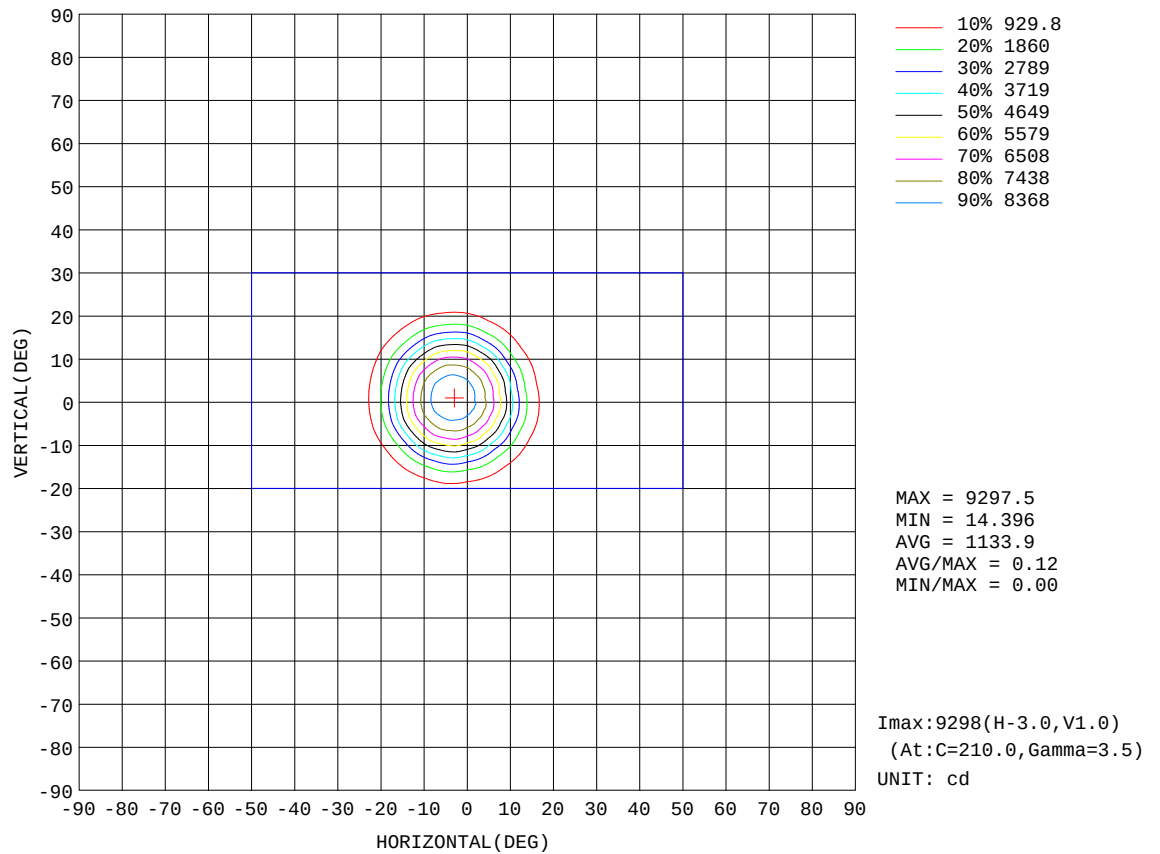
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) k(RI) x RCR = 5									
k = 0.60	88	82	78	87	82	78	86	81	78	74
0.80	95	90	86	94	89	86	93	88	85	82
1.00	99	94	90	98	93	90	96	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	106	103	100	103	101	98	92
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	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-CRI90-24D	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

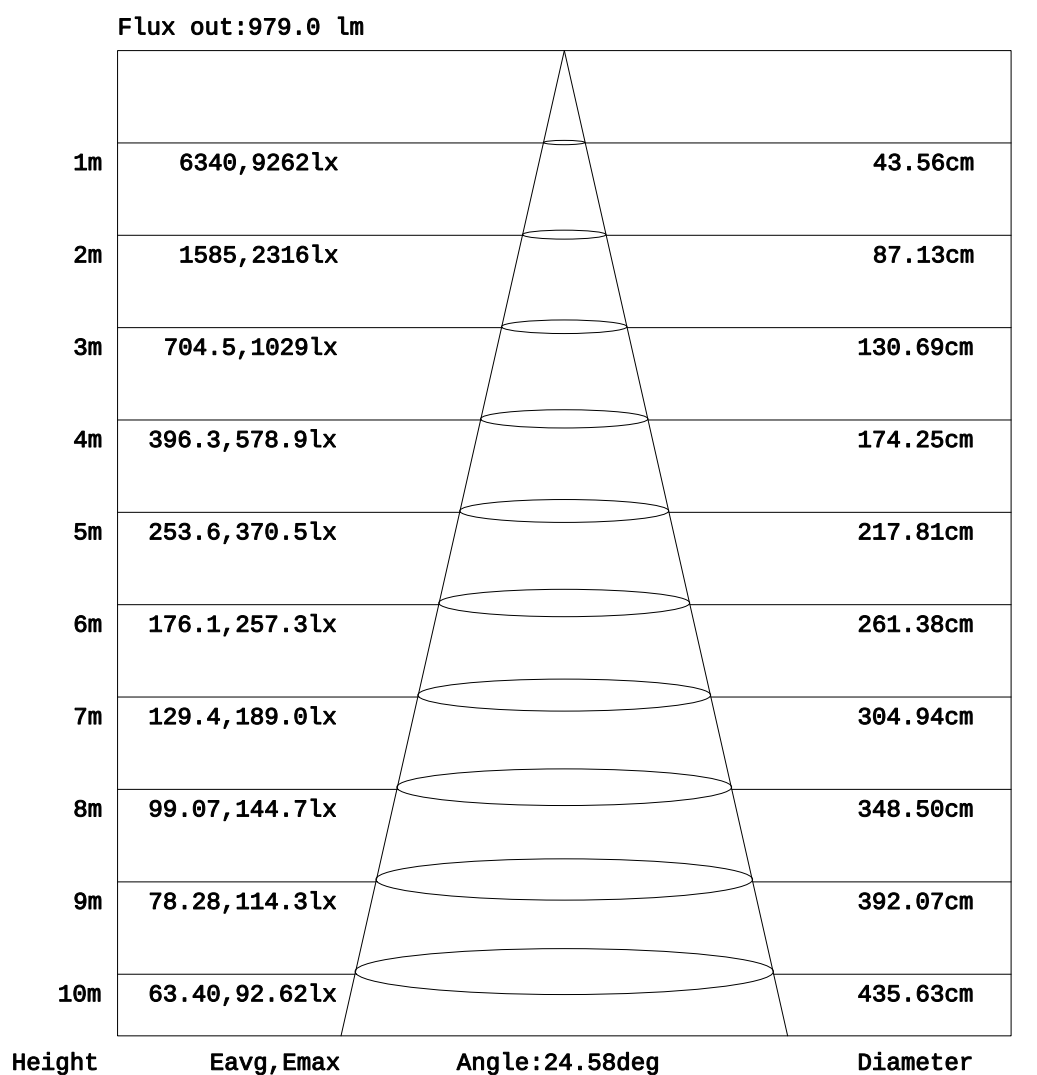


C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature: 28DEG
Operators: LGL
Test Date: 2021-08-13

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-CRI90-24D	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



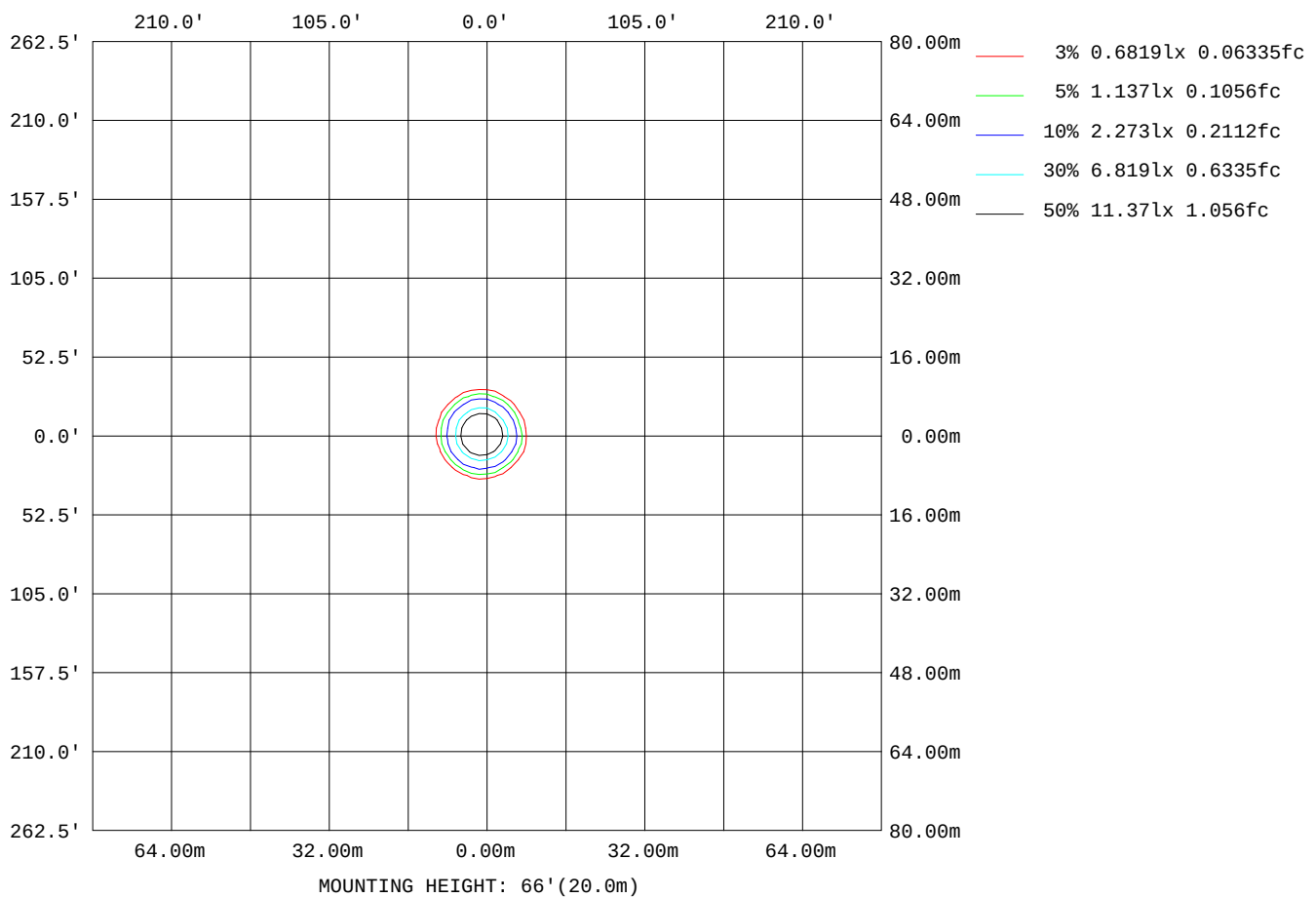
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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-CRI90-24D	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-CRI90-24D	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

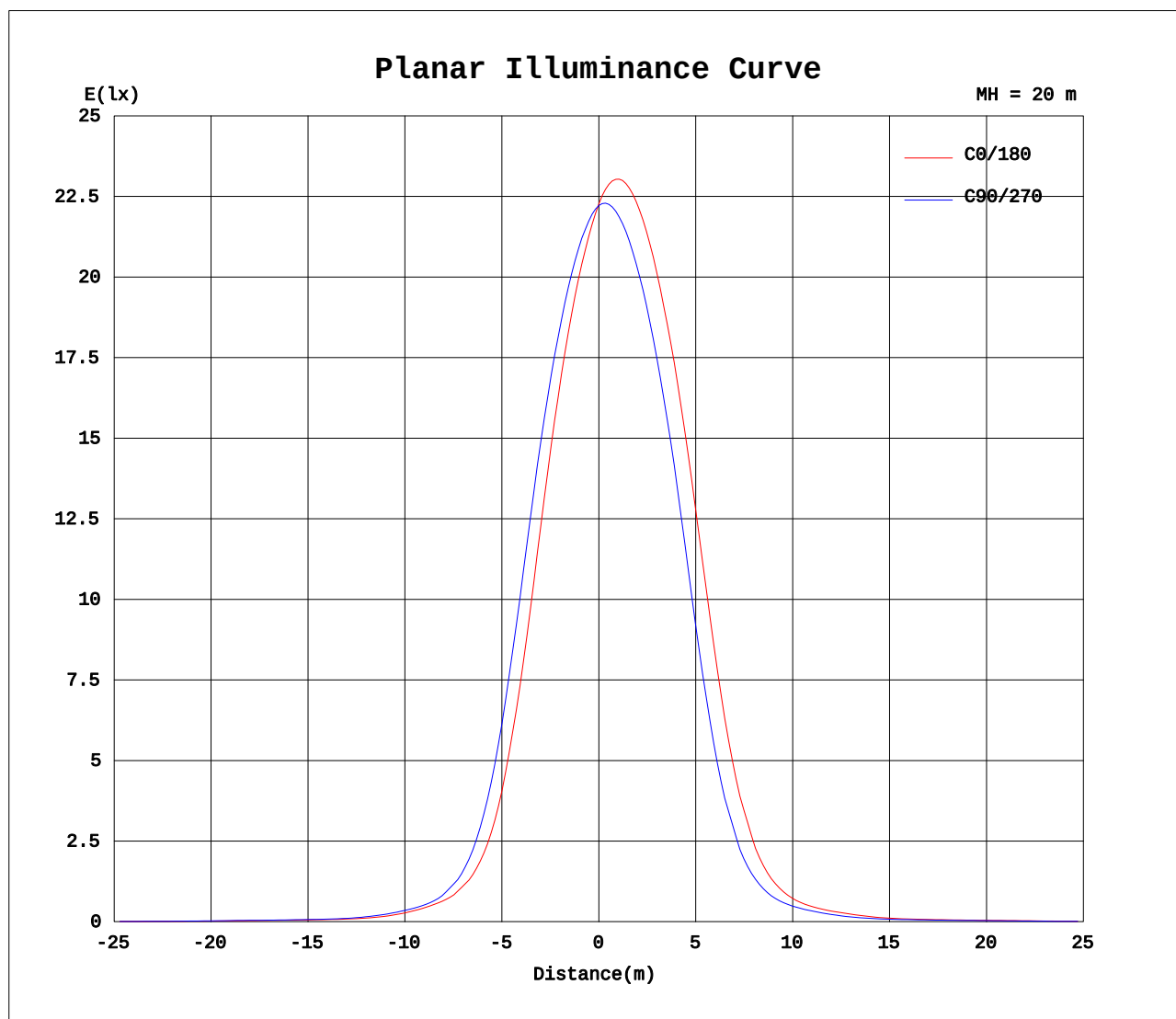
AvgL	cd/m2
L_0~180(65)av	10798
L_0~180(75)av	9726
L_0~180(85)av	2867
L_90~270(65)av	10389
L_90~270(75)av	9940
L_90~270(85)av	3028
L_45(65)av	10506
L_45(75)av	9389
L_45(85)av	3281

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-CRI90-24D	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	8887	8887	8887	8887	8887	8887	8887	8887	8887	8887	8887	8887	8887	8887	8887	8887	8887	8887	8887
5	7123	7128	7088	7230	7321	7568	7767	8082	8310	8624	8812	9065	9113	9130	9163	9013	8889	8623	8407
10	4055	4081	4018	4251	4409	4879	5251	5886	6332	6928	7261	7699	7754	7770	7822	7568	7371	6894	6529
15	1400	1473	1407	1573	1627	1923	2179	2717	3146	3834	4263	4861	4937	4969	5068	4716	4462	3847	3410
20	457	449	452	469	504	561	630	804	951	1252	1425	1773	1877	1938	2019	1795	1665	1303	1084
25	202	200	194	205	211	233	247	284	315	377	436	521	559	577	607	549	487	399	350
30	85.1	85.9	84.6	89.3	93.4	104	116	139	159	188	206	229	240	244	248	227	210	181	167
35	51.5	51.9	52.7	54.5	55.9	58.5	61.6	67.2	74.1	85.4	96.2	111	117	118	122	108	98.9	84.8	76.5
40	41.6	41.6	42.0	43.0	44.2	45.9	47.8	50.6	54.0	58.4	61.2	64.6	66.5	66.9	66.7	64.0	60.7	56.7	53.3
45	26.5	26.3	26.0	27.5	29.0	32.4	35.3	39.5	42.8	46.7	48.7	50.9	51.9	51.7	51.6	49.8	48.1	44.9	42.6
50	19.2	19.0	18.9	19.0	19.3	20.0	20.6	21.6	22.5	25.3	28.1	32.1	33.3	33.7	34.4	32.4	30.6	26.6	24.2
55	15.2	15.0	14.9	15.0	15.2	15.8	16.3	17.1	17.6	18.5	19.1	20.0	20.5	20.5	20.7	20.2	19.8	18.9	18.4
60	11.8	11.6	11.4	11.5	11.6	12.1	12.5	13.2	13.7	14.5	14.9	15.7	16.1	16.1	16.3	15.8	15.6	14.9	14.4
65	9.42	9.30	9.19	9.21	9.26	9.49	9.71	10.2	10.5	11.0	11.4	12.0	12.3	12.2	12.4	12.1	11.9	11.4	11.1
70	7.81	7.09	6.48	7.44	7.80	7.96	8.12	8.37	8.47	8.67	8.76	8.99	9.06	9.06	9.21	9.06	9.08	8.91	8.86
75	5.37	4.13	3.29	4.14	5.51	5.74	5.80	6.07	6.18	6.48	6.53	6.63	6.59	6.51	6.88	6.74	6.76	6.48	6.41
80	1.97	2.06	1.87	1.76	2.36	2.76	2.84	3.12	3.22	3.23	3.56	3.35	3.18	3.11	3.59	3.58	3.57	3.31	3.24
85	0.63	0.69	0.66	0.66	0.68	0.70	0.68	0.67	0.66	0.73	0.79	0.92	0.56	0.50	0.80	0.69	0.70	0.58	0.57
90	0.46	0.48	0.47	0.48	0.48	0.47	0.48	0.48	0.48	0.48	0.47	0.45	0.38	0.38	0.38	0.38	0.39	0.40	0.42
95	0.52	0.53	0.53	0.53	0.52	0.52	0.52	0.52	0.51	0.51	0.49	0.48	0.44	0.43	0.43	0.43	0.45	0.46	0.49
100	0.59	0.58	0.59	0.58	0.58	0.58	0.57	0.57	0.56	0.56	0.53	0.53	0.52	0.51	0.51	0.51	0.53	0.54	0.57
105	0.65	0.65	0.66	0.65	0.65	0.65	0.64	0.63	0.61	0.60	0.59	0.59	0.60	0.58	0.59	0.58	0.59	0.60	0.63
110	0.77	0.77	0.78	0.77	0.75	0.73	0.71	0.69	0.67	0.67	0.65	0.65	0.66	0.65	0.65	0.65	0.66	0.66	0.68
115	1.00	1.00	1.02	0.98	0.96	0.90	0.87	0.82	0.79	0.77	0.75	0.74	0.74	0.73	0.73	0.73	0.74	0.76	0.78
120	1.63	1.65	1.68	1.58	1.52	1.37	1.27	1.14	1.07	0.99	0.95	0.91	0.91	0.91	0.90	0.92	0.93	0.99	1.04
125	3.40	3.43	3.51	3.28	3.13	2.74	2.46	2.08	1.86	1.62	1.50	1.39	1.41	1.41	1.41	1.46	1.52	1.68	1.85
130	7.01	7.02	7.17	6.77	6.50	5.78	5.26	4.49	4.00	3.42	3.10	2.78	2.88	2.87	2.86	3.03	3.21	3.61	4.01
135	12.2	12.2	12.4	11.9	11.5	10.6	9.84	8.74	7.99	7.09	6.54	5.93	6.05	6.03	5.99	6.33	6.62	7.29	7.93
140	18.1	18.1	18.3	17.7	17.3	16.3	15.6	14.3	13.4	12.3	11.6	10.9	10.9	10.8	10.8	11.2	11.6	12.5	13.3
145	23.5	23.5	23.6	23.1	22.8	21.9	21.3	20.2	19.3	18.2	17.5	16.7	16.7	16.6	16.6	17.0	17.4	18.3	19.1
150	27.3	27.1	27.2	26.9	26.8	26.3	25.9	25.1	24.5	23.6	23.0	22.4	22.4	22.3	22.3	22.6	23.0	23.7	24.3
155	28.5	28.3	28.2	28.1	28.4	28.4	28.4	28.1	27.8	27.4	27.1	26.8	26.7	26.6	26.6	26.7	27.0	27.5	27.9
160	27.0	26.6	26.7	26.9	27.3	27.9	28.3	28.5	28.6	28.6	28.6	28.7	28.8	28.6	28.6	28.5	28.8	28.9	29.1
165	23.2	22.8	22.7	23.5	24.2	25.0	25.7	26.6	27.0	27.4	27.4	28.0	28.1	28.0	28.0	27.8	27.9	27.8	27.6
170	18.7	18.4	18.4	18.6	19.4	20.6	21.7	22.8	23.3	23.9	24.5	25.1	25.2	25.2	25.3	24.8	24.6	24.1	23.6
175	15.2	15.1	15.3	15.8	16.3	16.8	17.5	18.4	19.2	20.1	20.5	20.8	20.7	20.8	21.0	20.9	20.5	19.8	19.3
180	16.6	16.7	16.8	17.1	16.9	16.8	17.0	17.0	17.1	17.4	17.2	17.1	16.6	16.7	16.8	17.1	17.0	16.8	17.0

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:

LUMINOUS DISTRIBUTION INTENSITY DATA

NAME: VM070-VF73RA01-20W	TYPE:indoor lights	WEIGHT:1
SPEC.:3000K-CRI90-24D	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

Table--2

UNIT: cd

C (DEG) γ (DEG)	285	300	315	330	345														
0	8887	8887	8887	8887	8887														
5	8088	7859	7560	7382	7164														
10	5931	5482	4876	4526	4113														
15	2730	2293	1814	1642	1396														
20	813	677	552	489	448														
25	298	271	238	221	201														
30	143	128	106	94.8	84.7														
35	66.5	60.1	54.7	52.5	50.9														
40	48.6	45.8	43.8	42.5	41.6														
45	39.1	36.2	32.4	29.7	26.7														
50	21.8	20.8	20.0	19.5	19.1														
55	17.4	16.8	16.0	15.6	15.1														
60	13.6	13.1	12.4	12.1	11.7														
65	10.6	10.3	9.85	9.65	9.35														
70	8.69	8.57	8.29	8.10	7.82														
75	6.11	6.00	5.72	5.65	5.26														
80	2.95	2.87	2.59	2.45	1.86														
85	0.56	0.60	0.64	0.64	0.60														
90	0.44	0.46	0.47	0.48	0.46														
95	0.50	0.52	0.53	0.55	0.52														
100	0.57	0.57	0.59	0.62	0.60														
105	0.63	0.64	0.65	0.67	0.68														
110	0.70	0.72	0.74	0.76	0.78														
115	0.83	0.86	0.91	0.94	1.01														
120	1.15	1.23	1.38	1.48	1.66														
125	2.15	2.41	2.83	3.10	3.53														
130	4.65	5.16	5.97	6.48	7.20														
135	8.90	9.66	10.8	11.5	12.4														
140	14.4	15.3	16.6	17.3	18.3														
145	20.2	21.1	22.2	22.9	23.8														
150	25.2	25.9	26.6	27.0	27.6														
155	28.3	28.5	28.7	28.6	28.8														
160	29.0	28.8	28.2	27.8	27.5														
165	26.9	26.3	25.3	24.5	24.0														
170	22.6	21.8	20.8	20.2	19.6														
175	18.6	18.2	17.6	16.8	16.2														
180	17.0	17.1	17.4	17.2	17.1														

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: