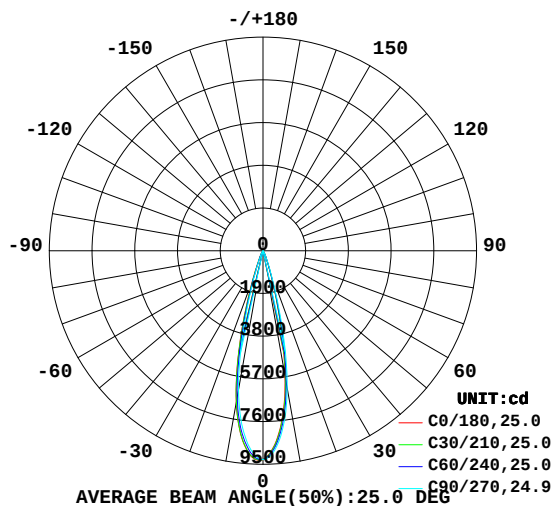


LUMINAIRE PHOTOMETRIC TEST REPORT

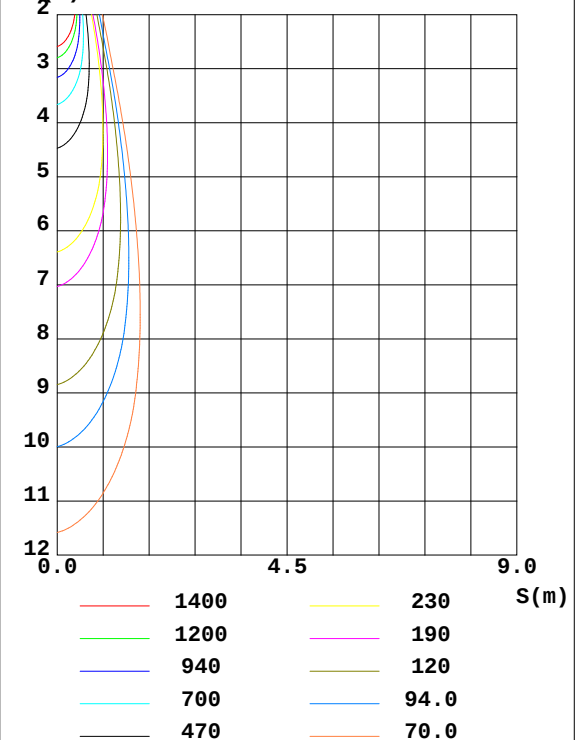
NAME: VM070-VF72RF01-20W	TYPE: indoor lights	WEIGHT: 1
SPEC.: 3000K-CRI90-24D	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 96.66 lm/W
MODEL	BXRE-30G1000-C-7X	Imax(cd)	9343	S/MH(C0/180)	0.42	
NOMINAL POWER(W)	20	LOR(%)	100.0	S/MH(C90/270)	0.39	
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	1892.9	η UP, DN(C0-180)	1.2, 48.9	
NOMINAL FLUX(lm)	1892.92	CIE CLASS	DIRECT	η UP, DN(C180-360)	1.2, 48.6	
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:

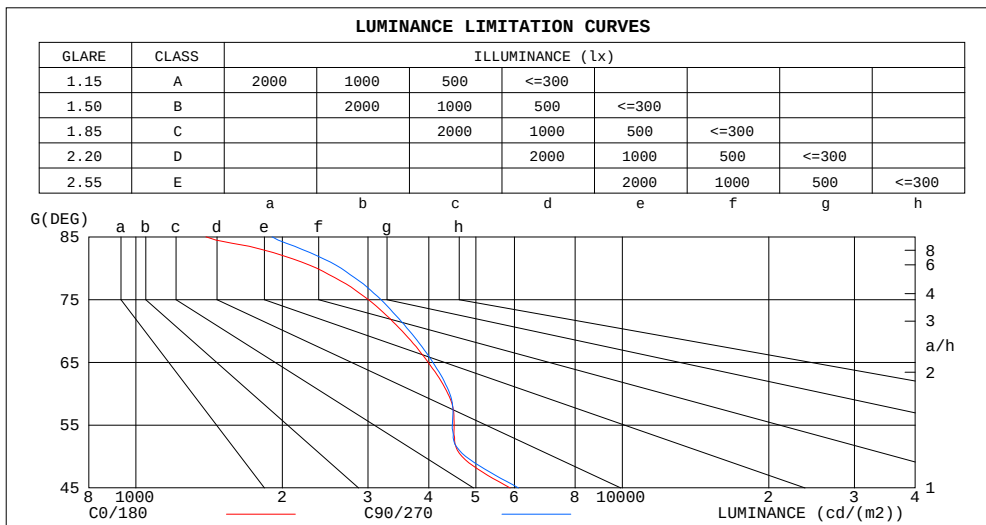
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	5647	5956	6220	6762	6858	6659	6284	5690	0- 10	738.5	738.5	39,39
20	755.5	810.0	898.0	1249	1227	998.7	874.8	774.3	10- 20	832.4	1571	83,83
30	133.2	142.7	152.6	193.3	194.3	172.8	153.1	132.9	20- 30	177.4	1748	92.4,92.4
40	33.83	34.35	36.69	43.89	43.07	37.27	34.91	33.42	30- 40	48.72	1797	94.9,94.9
50	17.27	17.41	17.81	18.79	18.87	18.26	17.89	17.22	40- 50	19.65	1817	96,96
60	12.57	12.65	12.84	13.23	13.33	13.12	12.97	12.52	50- 60	13.51	1830	96.7,96.7
70	6.923	7.042	7.257	7.726	7.781	7.505	7.298	6.864	60- 70	9.967	1840	97.2,97.2
80	2.347	2.467	2.668	2.867	3.009	2.821	2.637	2.286	70- 80	5.124	1845	97.5,97.5
90	0.4324	0.4370	0.4404	0.4365	0.4868	0.3953	0.4117	0.3986	80- 90	1.243	1847	97.6,97.6
100	0.5174	0.5183	0.5176	0.5145	0.5416	0.5182	0.5488	0.5411	90-100	0.5158	1847	97.6,97.6
110	0.6571	0.6435	0.6346	0.6260	0.6597	0.6454	0.6617	0.6791	100-110	0.6160	1848	97.6,97.6
120	1.261	1.158	1.109	1.041	1.075	1.090	1.145	1.306	110-120	0.8157	1848	97.7,97.7
130	5.404	4.994	4.624	4.071	4.247	4.432	4.838	5.585	120-130	2.182	1851	97.8,97.8
140	15.75	15.24	14.57	13.49	13.70	14.09	14.81	15.96	130-140	7.106	1858	98.1,98.1
150	26.19	25.86	25.49	24.72	24.89	25.21	25.81	26.44	140-150	12.69	1870	98.8,98.8
160	28.15	28.27	29.01	28.99	29.40	29.25	29.66	28.63	150-160	12.97	1883	99.5,99.5
170	21.16	21.33	22.67	23.58	24.02	23.71	23.00	21.67	160-170	7.581	1891	99.9,99.9
180	16.92	17.14	16.77	17.35	16.95	17.10	16.78	17.34	170-180	1.903	1893	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-VF72RF01-20W	TYPE:indoor lights	WEIGHT:1
SPEC.:3000K-CRI90-24D	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



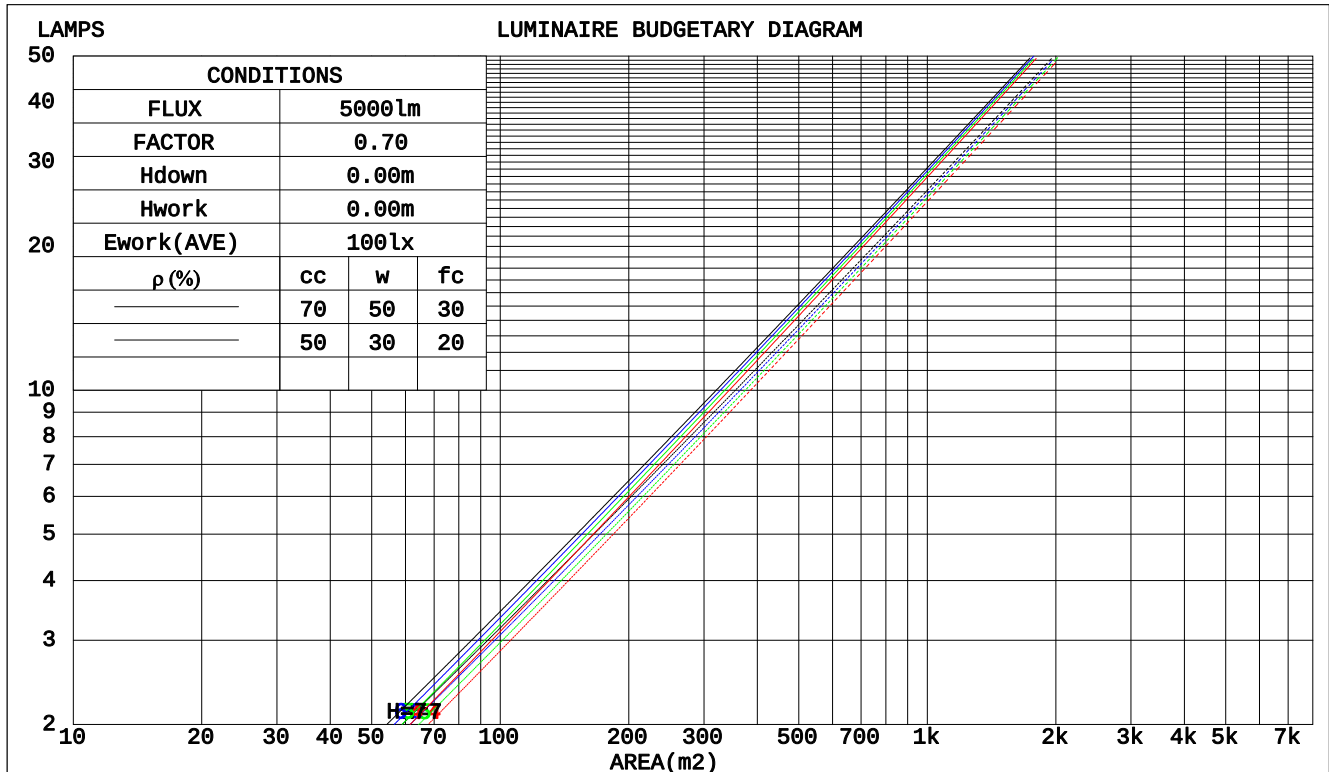
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: MEDIUM
 Temperature:28DEG
 Operators:LGL
 Test Date:2021-08-13

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:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

NAME: VM070-VF72RF01-20W	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	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	1.09	1.10	1.08	1.07	1.05	1.04	1.03	1.01	1.00	.99	.98	.97	.96	.94
2.0	1.07	1.04	1.01	1.05	1.02	1.00	1.02	.99	.98	.98	.97	.95	.95	.94	.93	.91
3.0	1.02	.99	.96	1.01	.98	.95	.98	.95	.93	.96	.93	.92	.93	.91	.90	.88
4.0	.98	.95	.92	.97	.94	.91	.95	.92	.90	.93	.90	.88	.91	.89	.87	.86
5.0	.95	.91	.88	.94	.90	.87	.92	.89	.87	.90	.88	.86	.89	.87	.85	.84
6.0	.92	.88	.85	.91	.87	.85	.90	.86	.84	.88	.85	.83	.87	.84	.82	.81
7.0	.89	.85	.82	.88	.85	.82	.87	.84	.81	.86	.83	.81	.85	.82	.80	.79
8.0	.87	.83	.80	.86	.82	.80	.85	.82	.79	.84	.81	.79	.83	.80	.78	.77
9.0	.84	.80	.78	.84	.80	.78	.83	.80	.77	.82	.79	.77	.81	.78	.76	.76
10.0	.82	.78	.76	.82	.78	.76	.81	.78	.75	.80	.77	.75	.79	.77	.75	.74



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-VF72RF01-20W	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	.139	.079	.025	.131	.075	.024	.118	.067	.022	.105	.061	.019	.093	.054	.017		
2.0	.128	.070	.021	.122	.067	.021	.110	.061	.019	.100	.056	.017	.090	.051	.016		
3.0	.118	.063	.019	.113	.061	.018	.104	.056	.017	.095	.052	.016	.086	.048	.015		
4.0	.110	.057	.017	.106	.055	.016	.098	.052	.015	.090	.048	.015	.083	.045	.014		
5.0	.103	.053	.015	.100	.051	.015	.093	.048	.014	.086	.045	.013	.080	.043	.013		
6.0	.097	.049	.014	.094	.048	.014	.088	.045	.013	.082	.043	.013	.077	.040	.012		
7.0	.092	.046	.013	.089	.044	.013	.084	.042	.012	.079	.040	.012	.074	.038	.011		
8.0	.087	.043	.012	.085	.042	.012	.080	.040	.011	.076	.038	.011	.071	.037	.011		
9.0	.083	.040	.011	.081	.039	.011	.077	.038	.011	.073	.036	.010	.069	.035	.010		
10.0	.080	.038	.011	.078	.037	.010	.074	.036	.010	.070	.035	.010	.067	.033	.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	.169	.152	.137	.145	.131	.118	.099	.090	.082	.057	.053	.048	.018	.017	.016	
3.0	.154	.132	.115	.132	.114	.100	.091	.079	.070	.052	.046	.041	.017	.015	.013	
4.0	.142	.117	.098	.122	.101	.085	.084	.070	.060	.048	.041	.036	.016	.013	.012	
5.0	.131	.105	.085	.113	.091	.074	.078	.063	.052	.045	.037	.031	.014	.012	.010	
6.0	.122	.095	.075	.105	.082	.065	.072	.057	.046	.042	.034	.028	.014	.011	.009	
7.0	.114	.087	.067	.098	.075	.058	.068	.053	.041	.040	.031	.025	.013	.010	.008	
8.0	.108	.080	.061	.093	.069	.053	.064	.049	.037	.037	.029	.022	.012	.009	.007	
9.0	.102	.074	.055	.088	.064	.048	.061	.045	.034	.035	.027	.020	.011	.009	.007	
10.0	.097	.069	.051	.084	.060	.044	.058	.042	.032	.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-VF72RF01-20W						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		6.4	7.0	6.6	7.2	7.4	6.6	7.2	6.8	7.4	7.6
3H		7.3	7.9	7.6	8.1	8.4	7.5	8.1	7.8	8.3	8.5
4H		7.7	8.2	8.0	8.5	8.7	7.9	8.4	8.2	8.7	8.9
6H		7.9	8.4	8.2	8.7	9.0	8.1	8.6	8.4	8.9	9.2
8H		7.9	8.4	8.2	8.7	9.0	8.2	8.7	8.5	9.0	9.2
12H		7.9	8.4	8.3	8.7	9.0	8.2	8.7	8.5	9.0	9.3
4H 2H		6.8	7.3	7.1	7.6	7.8	6.9	7.5	7.2	7.7	8.0
3H		7.9	8.4	8.2	8.7	9.0	8.0	8.5	8.4	8.8	9.1
4H		8.3	8.8	8.7	9.1	9.5	8.5	8.9	8.9	9.3	9.6
6H		8.6	9.0	9.0	9.4	9.8	8.8	9.2	9.2	9.6	10.0
8H		8.7	9.0	9.1	9.4	9.8	8.9	9.3	9.3	9.6	10.1
12H		8.7	9.0	9.1	9.4	9.8	8.9	9.3	9.4	9.7	10.1
8H 4H		8.4	8.8	8.9	9.2	9.6	8.6	9.0	9.0	9.4	9.8
6H		8.8	9.1	9.3	9.5	10.0	9.0	9.3	9.5	9.7	10.2
8H		8.9	9.2	9.4	9.6	10.1	9.1	9.4	9.6	9.8	10.3
12H		8.9	9.1	9.4	9.6	10.1	9.2	9.4	9.7	9.9	10.4
12H 4H		8.4	8.8	8.9	9.2	9.6	8.6	8.9	9.0	9.3	9.8
6H		8.8	9.1	9.3	9.5	10.0	9.0	9.3	9.5	9.7	10.2
8H		8.9	9.1	9.4	9.6	10.1	9.1	9.3	9.6	9.8	10.3
Variations with the observer position at spacings:											
S = 1.0H		+ 0.6 / - 0.6					+ 0.6 / - 0.7				
1.5H		+ 1.2 / - 0.6					+ 1.4 / - 0.6				
2.0H		+ 0.4 / - 0.4					+ 0.5 / - 0.4				

CIE Pub.117, 1893 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-VF72RF01-20W	TYPE:indoor lights	WEIGHT:1
SPEC.:3000K-CRI90-24D	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

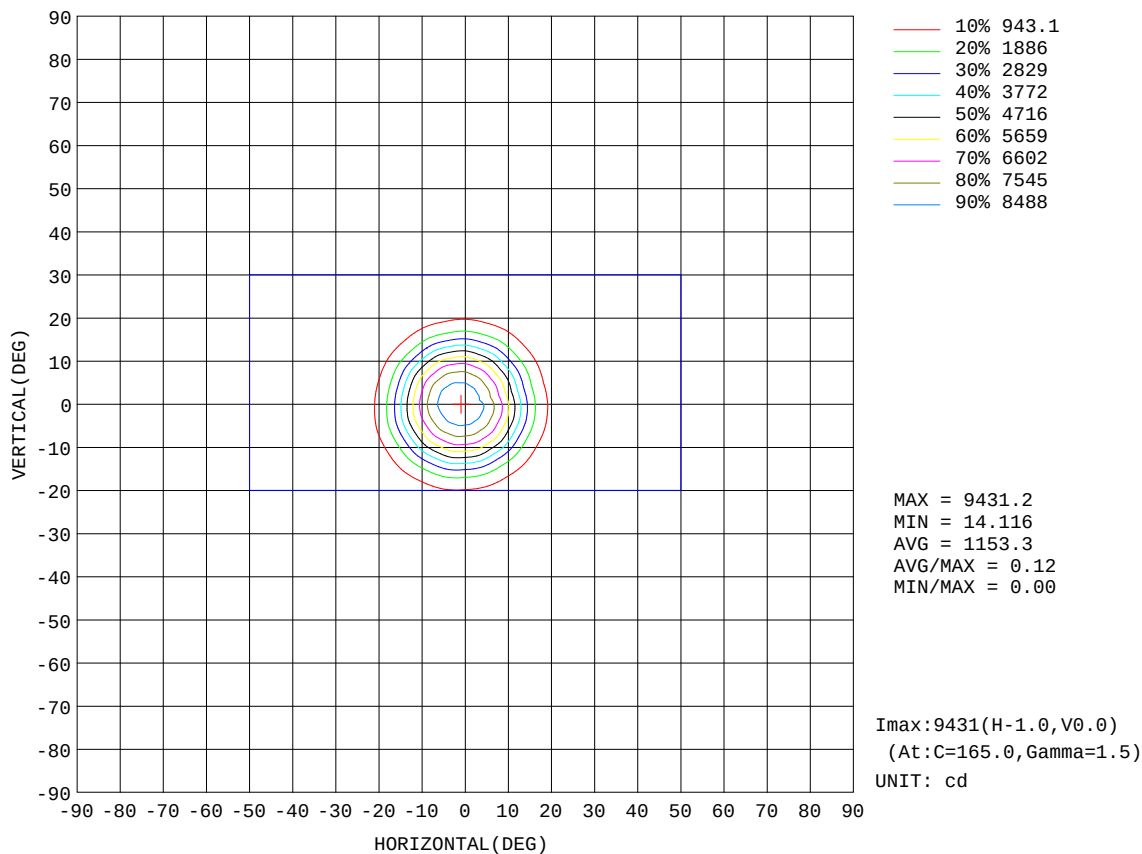
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	89	82	79	88	82	79	87	82	79	75
0.80	96	90	87	95	90	86	93	89	86	82
1.00	100	94	91	99	94	90	97	93	90	86
1.25	103	98	95	102	98	94	100	96	93	89
1.50	106	101	98	104	100	97	102	99	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	94
3.00	111	108	105	109	106	104	106	103	102	95
4.00	113	111	109	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-VF72RF01-20W	TYPE: indoor lights	WEIGHT: 1
SPEC.: 3000K-CRI90-24D	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

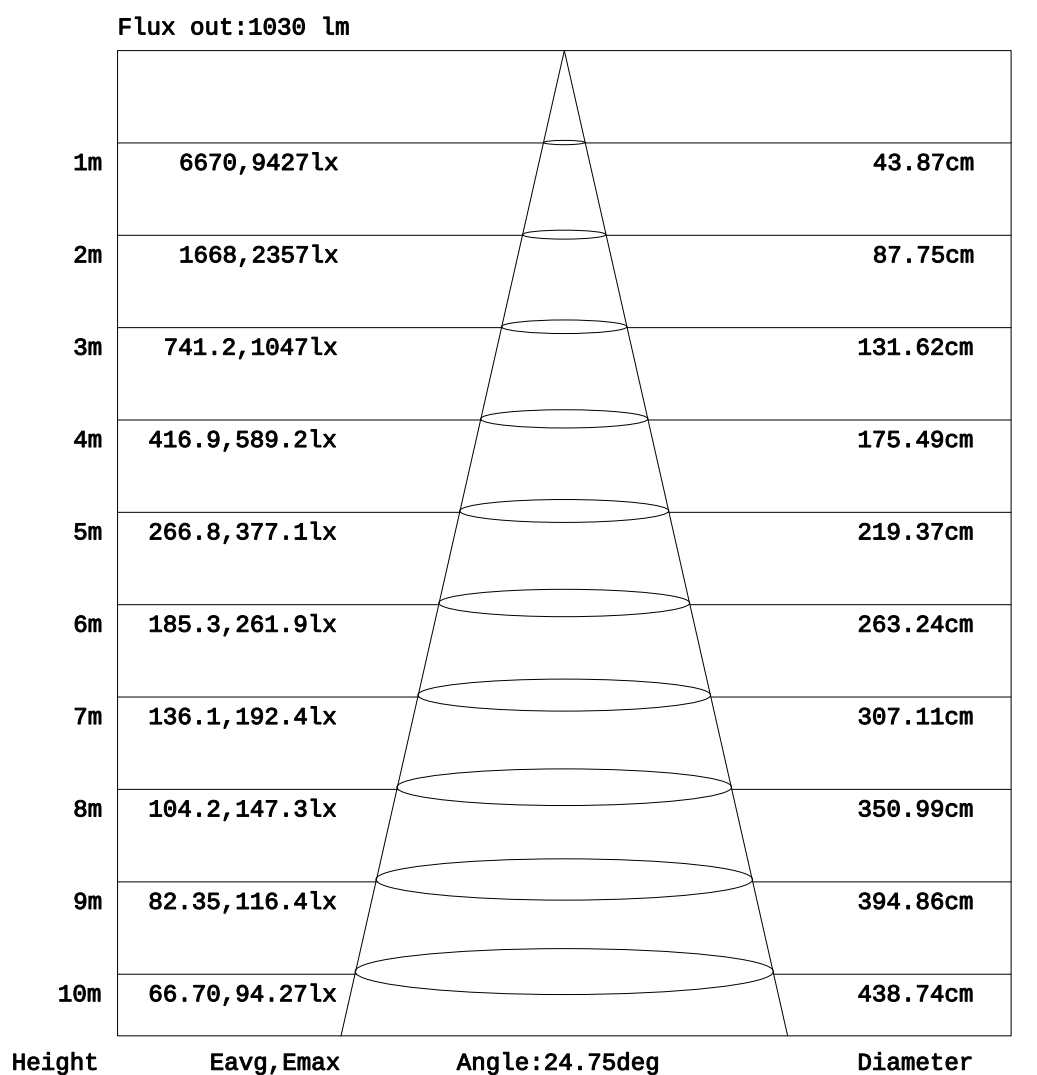


C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: MEDIUM
 Temperature: 28DEG
 Operators: LGL
 Test Date: 2021-08-13

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-VF72RF01-20W	TYPE:indoor lights	WEIGHT:1
SPEC.:3000K-CRI90-24D	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



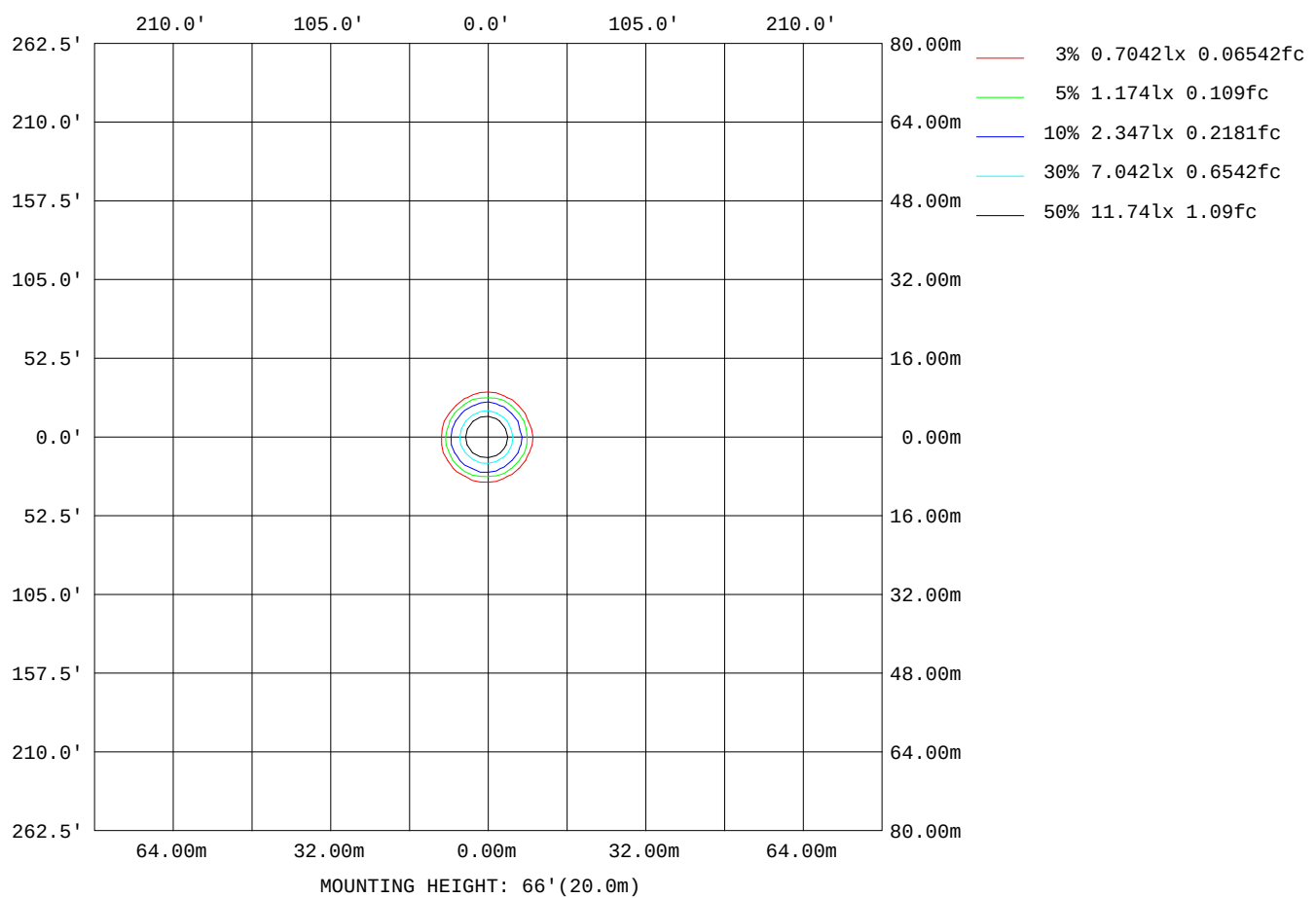
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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-VF72RF01-20W	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-VF72RF01-20W	TYPE:indoor lights	WEIGHT:1
SPEC.:3000K-CRI90-24D	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

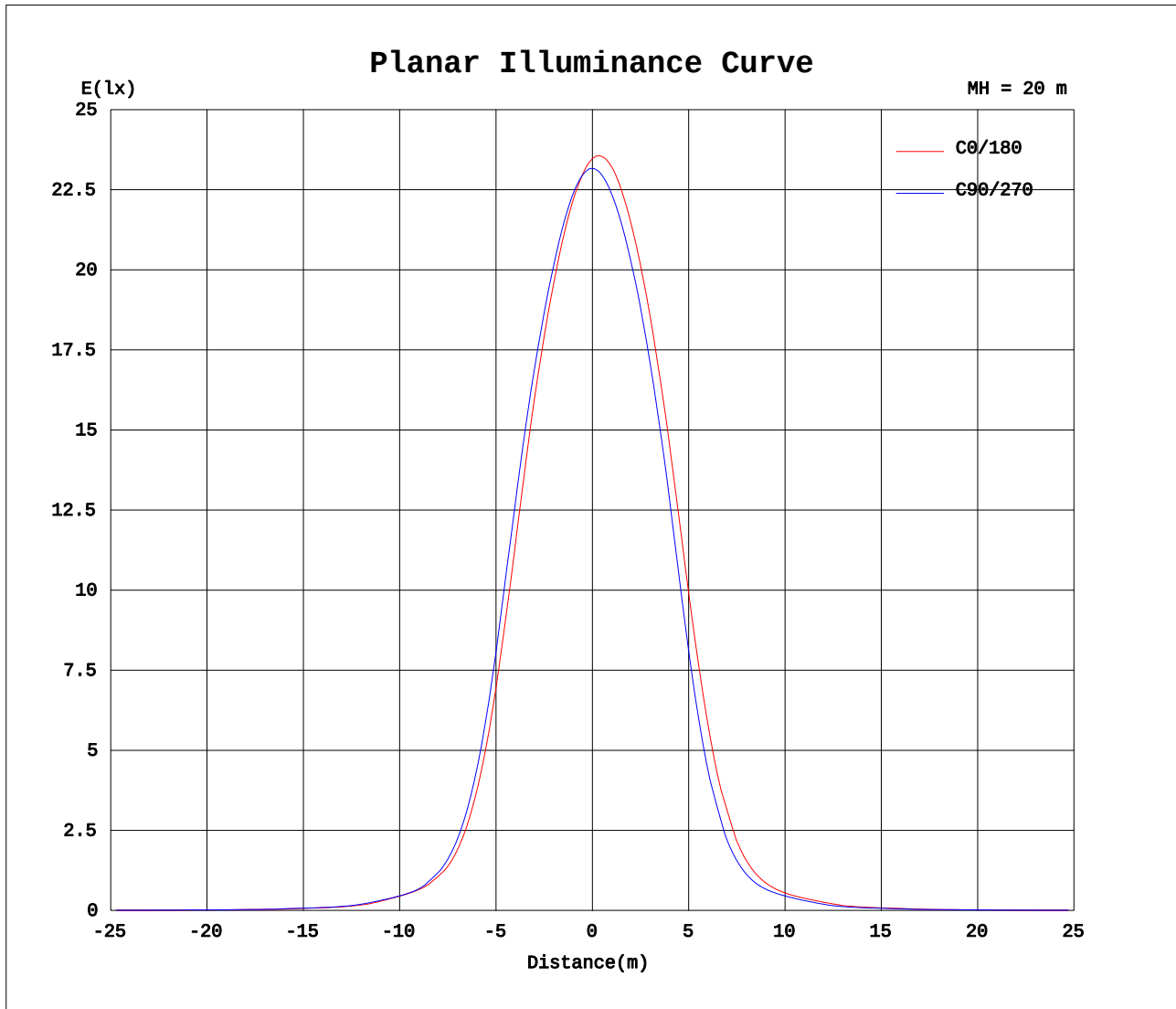
AvgL	cd/m2
L_0~180(65)av	4130
L_0~180(75)av	3229
L_0~180(85)av	1764
L_90~270(65)av	4101
L_90~270(75)av	3193
L_90~270(85)av	1852
L_45(65)av	4100
L_45(75)av	3197
L_45(85)av	1808

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-VF72RF01-20W	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	9282	9282	9282	9282	9282	9282	9282	9282	9282	9282	9282	9282	9282	9282	9282	9282	9282	9282	9282
5	8140	8199	8189	8287	8295	8415	8441	8576	8617	8754	8774	8887	8812	8766	8786	8685	8650	8516	8472
10	5647	5785	5750	5956	5964	6182	6220	6457	6513	6762	6804	7006	6858	6775	6839	6659	6619	6375	6284
15	2467	2561	2524	2675	2665	2870	2927	3230	3331	3630	3661	3864	3658	3527	3585	3349	3282	2984	2935
20	756	780	765	810	804	875	898	1015	1073	1249	1225	1337	1227	1121	1119	999	975	876	875
25	307	311	302	312	305	316	319	348	365	404	405	422	391	369	367	344	338	316	315
30	133	140	132	143	139	152	153	168	175	193	196	204	194	182	184	173	171	157	153
35	64.0	63.9	63.7	64.8	65.3	68.3	70.0	74.6	78.0	82.1	82.2	83.7	79.5	76.6	76.0	72.2	70.7	67.1	66.0
40	33.8	34.1	33.8	34.4	34.6	35.9	36.7	39.2	40.1	43.9	44.2	46.7	43.1	40.4	40.3	37.3	37.1	35.1	34.9
45	23.9	23.9	23.7	24.1	24.2	24.9	25.1	26.0	26.2	27.0	26.8	27.0	26.4	25.9	25.8	25.2	25.2	24.8	24.8
50	17.3	17.4	17.2	17.4	17.4	17.7	17.8	18.2	18.3	18.8	18.8	19.1	18.9	18.6	18.7	18.3	18.2	17.9	17.9
55	14.8	14.9	14.8	14.8	14.8	14.9	14.9	15.0	15.0	15.2	15.2	15.3	15.3	15.2	15.2	15.1	15.1	15.0	15.1
60	12.6	12.6	12.5	12.7	12.6	12.8	12.8	13.0	13.0	13.2	13.2	13.4	13.3	13.2	13.3	13.1	13.1	13.0	13.0
65	9.68	9.74	9.64	9.79	9.77	9.99	10.0	10.3	10.3	10.5	10.5	10.7	10.6	10.4	10.5	10.3	10.3	10.1	10.1
70	6.92	6.99	6.90	7.04	7.04	7.22	7.26	7.48	7.51	7.73	7.72	7.90	7.78	7.65	7.68	7.51	7.50	7.31	7.30
75	4.46	4.52	4.46	4.59	4.59	4.75	4.80	4.98	5.03	5.22	5.23	5.37	5.24	5.13	5.17	5.00	5.00	4.83	4.79
80	2.35	2.39	2.37	2.47	2.48	2.62	2.67	2.83	2.81	2.87	3.03	3.15	3.01	2.93	2.95	2.82	2.81	2.66	2.64
85	0.70	0.79	0.78	0.84	0.85	0.94	0.97	1.06	1.07	1.07	1.20	1.29	1.09	0.74	1.10	1.03	1.02	0.93	0.91
90	0.43	0.44	0.43	0.44	0.44	0.43	0.44	0.44	0.44	0.44	0.44	0.45	0.49	0.40	0.39	0.40	0.39	0.40	0.41
95	0.47	0.48	0.47	0.48	0.47	0.48	0.47	0.48	0.47	0.47	0.46	0.47	0.48	0.45	0.46	0.45	0.46	0.46	0.48
100	0.52	0.52	0.51	0.52	0.52	0.53	0.52	0.52	0.51	0.51	0.50	0.51	0.54	0.52	0.53	0.52	0.53	0.53	0.55
105	0.57	0.58	0.57	0.57	0.57	0.57	0.57	0.57	0.56	0.56	0.56	0.56	0.60	0.58	0.58	0.58	0.59	0.59	0.60
110	0.66	0.65	0.65	0.64	0.64	0.64	0.63	0.63	0.63	0.63	0.62	0.62	0.66	0.65	0.64	0.65	0.65	0.66	0.66
115	0.83	0.81	0.80	0.79	0.79	0.77	0.77	0.76	0.76	0.75	0.75	0.74	0.78	0.77	0.77	0.77	0.77	0.79	0.79
120	1.26	1.22	1.21	1.16	1.15	1.11	1.11	1.07	1.08	1.04	1.04	1.02	1.08	1.09	1.07	1.09	1.09	1.13	1.15
125	2.52	2.43	2.42	2.28	2.25	2.12	2.09	1.99	1.98	1.89	1.88	1.81	1.98	2.00	1.98	2.04	2.05	2.16	2.23
130	5.40	5.24	5.25	4.99	4.95	4.69	4.62	4.35	4.29	4.07	4.05	3.88	4.25	4.32	4.28	4.43	4.47	4.73	4.84
135	10.0	9.83	9.86	9.53	9.47	9.08	8.95	8.55	8.43	8.07	8.01	7.77	8.28	8.40	8.34	8.59	8.66	9.04	9.19
140	15.8	15.5	15.6	15.2	15.2	14.7	14.6	14.1	13.9	13.5	13.4	13.1	13.7	13.8	13.8	14.1	14.2	14.6	14.8
145	21.5	21.4	21.4	21.1	21.0	20.6	20.5	20.0	19.9	19.4	19.3	19.1	19.6	19.7	19.7	20.0	20.1	20.5	20.7
150	26.2	26.0	26.1	25.9	25.9	25.6	25.5	25.2	25.0	24.7	24.6	24.5	24.9	25.0	25.0	25.2	25.3	25.7	25.8
155	28.6	28.5	28.4	28.4	28.5	28.6	28.6	28.4	28.3	28.1	28.1	28.1	28.4	28.4	28.4	28.5	28.7	28.9	29.0
160	28.2	28.1	28.1	28.3	28.5	28.9	29.0	29.1	29.0	29.0	29.0	29.2	29.4	29.3	29.3	29.2	29.5	29.6	29.7
165	25.2	25.2	25.1	25.7	26.1	26.5	26.7	27.1	27.2	27.4	27.1	27.5	27.6	27.5	27.5	27.5	27.7	27.6	27.5
170	21.2	21.2	21.2	21.3	21.7	22.3	22.7	23.2	23.2	23.6	23.8	24.1	24.0	24.0	24.1	23.7	23.6	23.3	23.0
175	17.2	17.2	17.2	17.6	17.8	17.8	18.0	18.5	19.0	19.6	19.7	19.7	19.6	19.6	19.8	19.7	19.4	18.8	18.6
180	16.9	16.9	16.9	17.1	16.9	16.6	16.8	16.7	16.9	17.4	17.1	16.9	17.0	16.8	17.0	17.1	16.9	16.6	16.8

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-VF72RF01-20W	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	9282	9282	9282	9282	9282														
5	8327	8285	8162	8137	8049														
10	6017	5937	5690	5655	5491														
15	2736	2742	2549	2511	2336														
20	821	835	774	770	713														
25	308	314	303	301	292														
30	142	146	133	135	126														
35	65.3	65.7	64.6	64.1	62.9														
40	34.0	34.1	33.4	33.5	32.9														
45	24.2	24.2	23.8	23.8	23.3														
50	17.6	17.5	17.2	17.1	16.9														
55	14.9	14.9	14.8	14.7	14.6														
60	12.8	12.7	12.5	12.5	12.3														
65	9.89	9.85	9.64	9.61	9.44														
70	7.10	7.06	6.86	6.85	6.70														
75	4.61	4.58	4.41	4.39	4.25														
80	2.48	2.43	2.29	2.27	2.17														
85	0.81	0.78	0.71	0.70	0.54														
90	0.40	0.41	0.40	0.41	0.40														
95	0.47	0.48	0.47	0.48	0.48														
100	0.54	0.54	0.54	0.55	0.54														
105	0.60	0.60	0.60	0.60	0.60														
110	0.67	0.68	0.68	0.68	0.69														
115	0.81	0.82	0.85	0.85	0.86														
120	1.21	1.24	1.31	1.32	1.35														
125	2.40	2.48	2.65	2.68	2.80														
130	5.14	5.28	5.59	5.65	5.88														
135	9.65	9.79	10.2	10.3	10.7														
140	15.3	15.5	16.0	16.1	16.4														
145	21.2	21.3	21.7	21.8	22.1														
150	26.1	26.2	26.4	26.4	26.7														
155	29.0	28.9	28.9	28.8	28.9														
160	29.4	29.1	28.6	28.4	28.4														
165	27.1	26.6	26.0	25.6	25.4														
170	22.6	22.1	21.7	21.5	21.3														
175	18.3	18.4	18.1	17.5	17.3														
180	16.7	16.9	17.3	17.1	16.9														

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: