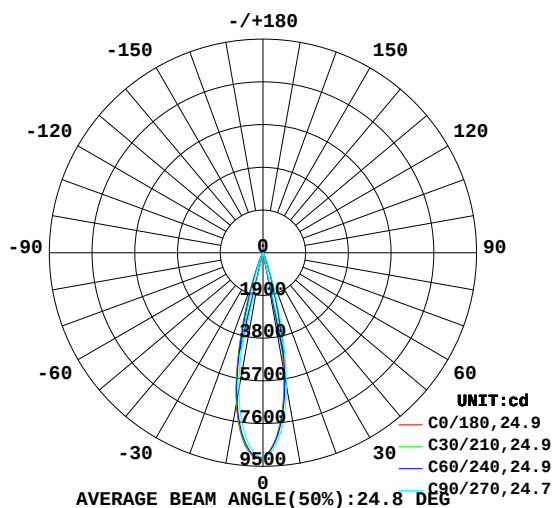


LUMINAIRE PHOTOMETRIC TEST REPORT

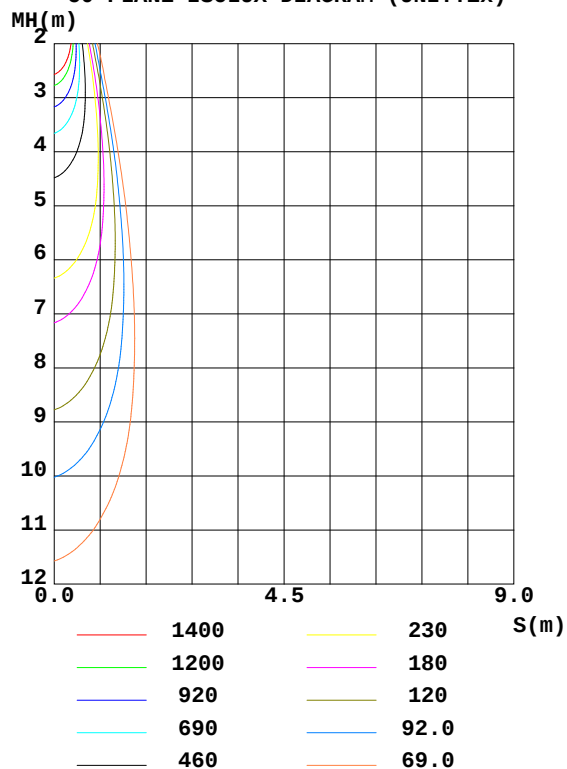
NAME: VM070-VF71RA01-20W	TYPE: indoor lights	WEIGHT: 1
SPEC.: 3000K-CRI90-24D	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 90.74 lm/W			
MODEL	BXRE-30G1000-C-7X	Imax(cd)	9234	S/MH(C0/180)	0.43
NOMINAL POWER(W)	20	LOR(%)	100.0	S/MH(C90/270)	0.39
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	1773.0	η UP, DN(C0-180)	1.3, 48.7
NOMINAL FLUX(lm)	1773	CIE CLASS	DIRECT	η UP, DN(C180-360)	1.3, 48.8
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:

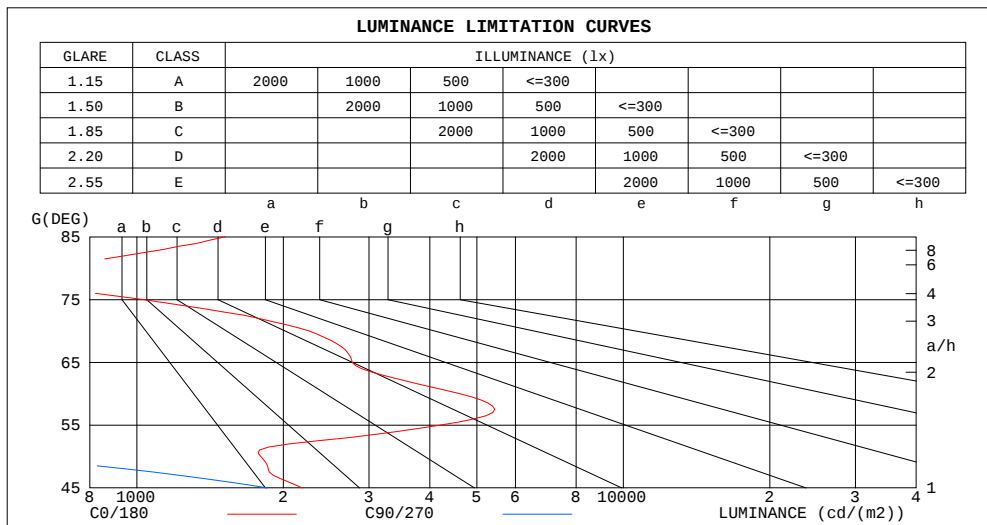
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	5329	5480	6005	6854	6825	6736	6176	5218	0- 10	721.5	721.5	40.7, 40.7
20	649.0	657.6	811.1	1301	1315	1127	846.4	619.6	10- 20	807.9	1529	86.3, 86.3
30	88.97	85.67	99.41	127.4	124.5	120.7	120.8	90.55	20- 30	154.2	1684	95, 95
40	14.55	14.48	16.04	22.83	22.92	21.55	16.04	13.87	30- 40	32.55	1716	96.8, 96.8
50	6.151	1.721	1.774	2.997	3.062	3.234	2.265	1.732	40- 50	6.563	1723	97.2, 97.2
60	12.27	1.687	0.6278	0.5583	0.4845	0.8530	0.7295	1.793	50- 60	2.842	1726	97.3, 97.3
70	4.114	0.5654	0.4750	0.4935	0.3160	0.3139	0.2485	0.3083	60- 70	1.643	1727	97.4, 97.4
80	0.6434	0.5008	0.3149	0.3551	0.2719	0.2392	0.2773	0.2963	70- 80	0.5424	1728	97.4, 97.4
90	0.5468	0.4014	0.3615	0.3955	0.3653	0.3069	0.3483	0.3662	80- 90	0.4003	1728	97.5, 97.5
100	1.661	0.9754	0.4059	0.4882	0.5544	0.4122	0.4480	0.6009	90-100	0.6658	1729	97.5, 97.5
110	1.410	0.7539	0.4723	0.5160	0.5935	0.4788	0.5125	0.6766	100-110	0.6617	1729	97.5, 97.5
120	1.936	0.9965	0.8461	0.7844	0.8921	0.7514	0.9171	1.046	110-120	0.8003	1730	97.6, 97.6
130	5.352	5.084	4.292	3.494	3.616	3.667	4.252	5.466	120-130	1.997	1732	97.7, 97.7
140	15.84	15.40	14.17	12.42	12.83	12.81	13.99	16.06	130-140	6.782	1739	98.1, 98.1
150	25.59	25.33	24.86	23.57	23.63	23.80	24.86	26.04	140-150	12.30	1751	98.8, 98.8
160	27.17	27.23	28.11	28.34	28.21	28.28	28.91	28.43	150-160	12.54	1764	99.5, 99.5
170	19.48	19.58	21.56	22.96	22.76	22.91	22.32	20.32	160-170	7.321	1771	99.9, 99.9
180	15.82	16.34	16.37	16.82	15.84	16.32	16.30	16.81	170-180	1.813	1773	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-VF71RA01-20W	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	1519	731
80	696	334
75	1031	220
70	2260	256
65	2770	238
60	4612	231
55	4211	199
50	1798	508
45	2187	1856

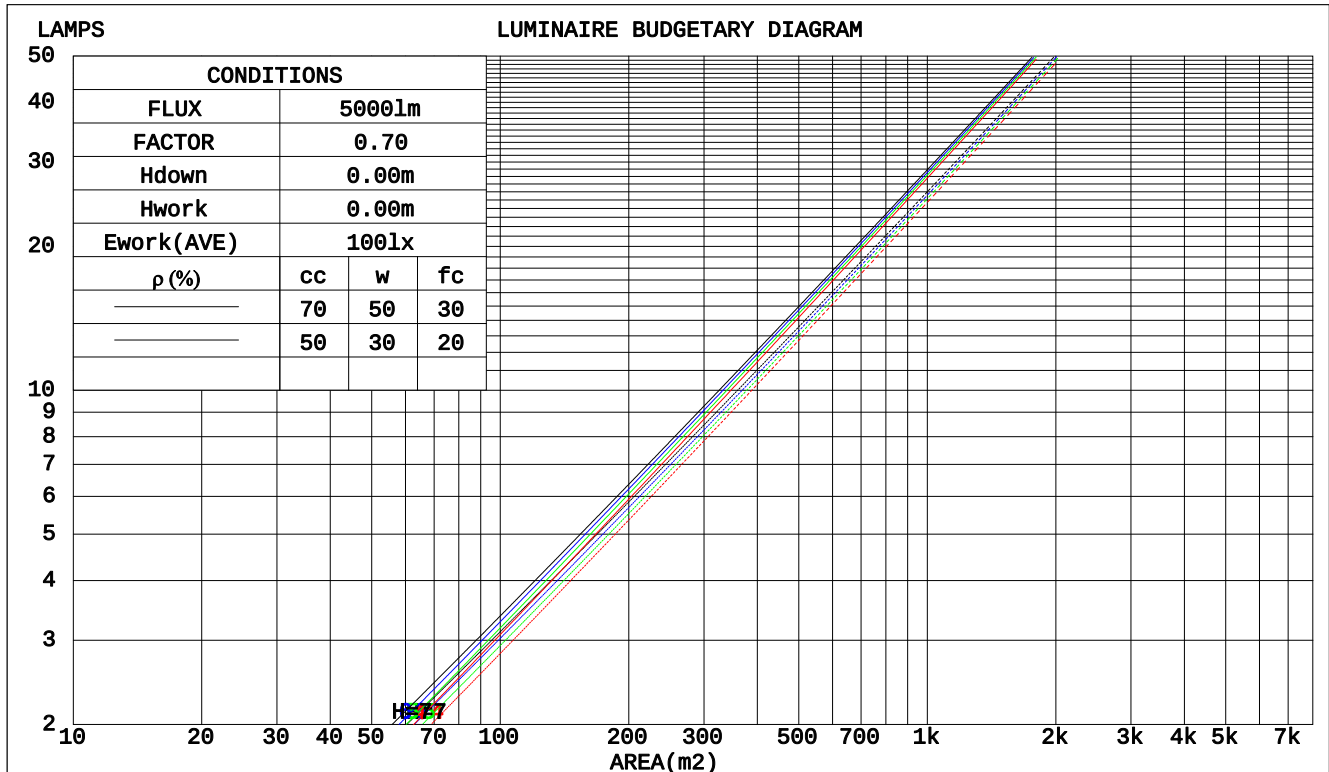
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: MEDIUM
 Temperature:28DEG
 Operators:LGL
 Test Date:2021-08-13

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-VF71RA01-20W	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	1.04	1.04	1.04	.00	.00	.00	.97
1.0	1.13	1.11	1.09	1.10	1.09	1.07	1.06	1.04	1.03	1.02	1.01	.00	.98	.97	.97	.95
2.0	1.08	1.05	1.02	1.06	1.03	1.01	1.02	1.00	.98	.99	.97	.96	.96	.95	.94	.92
3.0	1.03	.00	.97	1.02	.99	.96	.99	.97	.94	.96	.94	.93	.94	.92	.91	.90
4.0	.00	.96	.93	.98	.95	.92	.96	.93	.91	.94	.92	.90	.92	.90	.89	.87
5.0	.96	.93	.90	.95	.92	.89	.94	.91	.88	.92	.89	.87	.90	.88	.86	.85
6.0	.93	.90	.87	.93	.89	.86	.91	.88	.86	.90	.87	.85	.88	.86	.84	.83
7.0	.91	.87	.84	.90	.86	.84	.89	.86	.83	.88	.85	.83	.86	.84	.82	.81
8.0	.88	.84	.82	.88	.84	.82	.87	.83	.81	.86	.83	.81	.85	.82	.80	.79
9.0	.86	.82	.80	.86	.82	.80	.85	.81	.79	.84	.81	.79	.83	.80	.79	.78
10.0	.84	.80	.78	.84	.80	.78	.83	.80	.77	.82	.79	.77	.81	.79	.77	.76



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-VF71RA01-20W	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	.132	.075	.024	.125	.071	.023	.111	.064	.020	.098	.057	.018	.087	.050	.016		
2.0	.121	.067	.020	.115	.064	.020	.104	.058	.018	.093	.052	.016	.083	.047	.015		
3.0	.112	.060	.018	.107	.057	.017	.098	.053	.016	.089	.049	.015	.080	.044	.014		
4.0	.105	.054	.016	.100	.053	.016	.092	.049	.015	.084	.045	.014	.077	.042	.013		
5.0	.098	.050	.015	.094	.049	.014	.087	.046	.013	.081	.043	.013	.075	.040	.012		
6.0	.093	.046	.013	.089	.045	.013	.083	.043	.012	.077	.040	.012	.072	.038	.011		
7.0	.088	.043	.012	.085	.042	.012	.079	.040	.012	.074	.038	.011	.070	.036	.011		
8.0	.083	.041	.011	.081	.040	.011	.076	.038	.011	.071	.036	.010	.067	.035	.010		
9.0	.079	.038	.011	.077	.038	.011	.073	.036	.010	.069	.035	.010	.065	.033	.010		
10.0	.076	.036	.010	.074	.036	.010	.070	.034	.010	.066	.033	.009	.063	.032	.009		

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	.210	.210	.210	.179	.179	.179	.122	.122	.122	.070	.070	.070	.022	.022	.022	
1.0	.187	.177	.168	.160	.152	.144	.110	.105	.100	.063	.061	.058	.020	.019	.019	
2.0	.169	.152	.138	.145	.131	.119	.099	.091	.083	.057	.053	.049	.018	.017	.016	
3.0	.154	.133	.116	.132	.115	.101	.091	.080	.071	.052	.047	.042	.017	.015	.014	
4.0	.141	.118	.100	.121	.102	.087	.083	.071	.061	.048	.041	.036	.015	.013	.012	
5.0	.130	.105	.087	.112	.091	.075	.077	.064	.053	.045	.037	.032	.014	.012	.010	
6.0	.121	.095	.076	.104	.082	.067	.072	.058	.047	.042	.034	.028	.013	.011	.009	
7.0	.113	.087	.068	.098	.075	.060	.067	.053	.042	.039	.031	.025	.013	.010	.008	
8.0	.107	.080	.062	.092	.069	.054	.064	.049	.038	.037	.029	.023	.012	.009	.008	
9.0	.101	.074	.056	.087	.065	.049	.060	.045	.035	.035	.027	.021	.011	.009	.007	
10.0	.096	.070	.052	.083	.060	.045	.057	.042	.032	.033	.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-VF71RA01-20W						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						4.2	4.7	4.4	4.9	5.1	0.6
3H						4.8	5.4	5.1	5.6	5.8	0.5
4H						4.9	5.4	5.2	5.7	5.9	0.4
6H						4.8	5.3	5.2	5.6	5.9	0.4
8H						4.8	5.3	5.2	5.6	5.9	0.4
12H						4.8	5.3	5.2	5.6	5.9	0.4
4H 2H						4.0	4.5	4.3	4.8	5.0	0.6
3H						4.7	5.2	5.0	5.5	5.8	0.5
4H						4.8	5.2	5.1	5.5	5.9	0.4
6H						4.7	5.1	5.1	5.5	5.9	0.4
8H						4.7	5.1	5.2	5.5	5.9	0.4
12H						4.8	5.1	5.2	5.5	6.0	0.4
8H 4H						4.6	5.0	5.0	5.4	5.8	0.3
6H						4.6	4.9	5.1	5.3	5.8	0.3
8H						4.6	4.9	5.1	5.3	5.8	0.4
12H						4.7	4.9	5.2	5.4	5.9	0.5
12H 4H						4.6	4.9	5.0	5.3	5.7	0.3
6H						4.5	4.8	5.0	5.3	5.8	0.3
8H						4.6	4.8	5.1	5.3	5.8	0.4
Variations with the observer position at spacings:											
S = 1.0H						+ 0.5 / - 0.5			+ 4.1 / - 5.2		
1.5H						+ 2.8 / - 1.5			+ 6.5 / - 4.8		
2.0H						+ 3.7 / - 5.0			+ 4.3 / - 2.1		

CIE Pub.117, 1773 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = 2.0$)

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-VF71RA01-20W	TYPE:indoor lights	WEIGHT:1
SPEC.:3000K-CRI90-24D	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

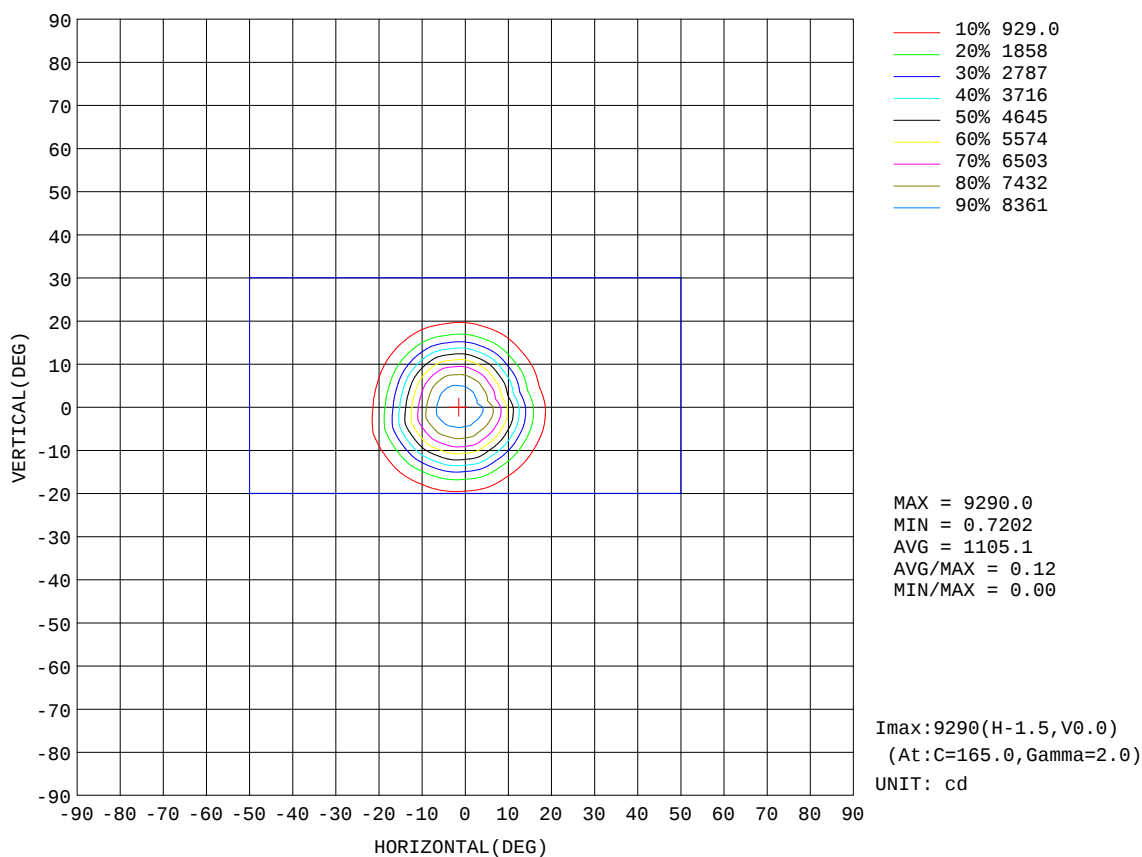
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) k(RI) x RCR = 5									
k = 0.60	90	84	80	89	84	80	88	83	80	77
0.80	97	91	88	96	91	88	94	90	87	84
1.00	100	95	92	99	95	92	98	94	91	87
1.25	104	99	96	103	99	96	101	97	95	90
1.50	106	102	99	105	101	98	103	99	97	92
2.00	109	105	102	107	104	101	104	101	99	94
2.50	110	107	104	109	105	103	105	103	101	94
3.00	112	109	106	110	107	105	106	104	102	95
4.00	114	111	109	111	109	107	107	106	104	97
5.00	115	113	111	113	111	109	108	107	106	98
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004										
Suspended										
SHRNM = 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-VF71RA01-20W	TYPE: indoor lights	WEIGHT: 1
SPEC.: 3000K-CRI90-24D	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

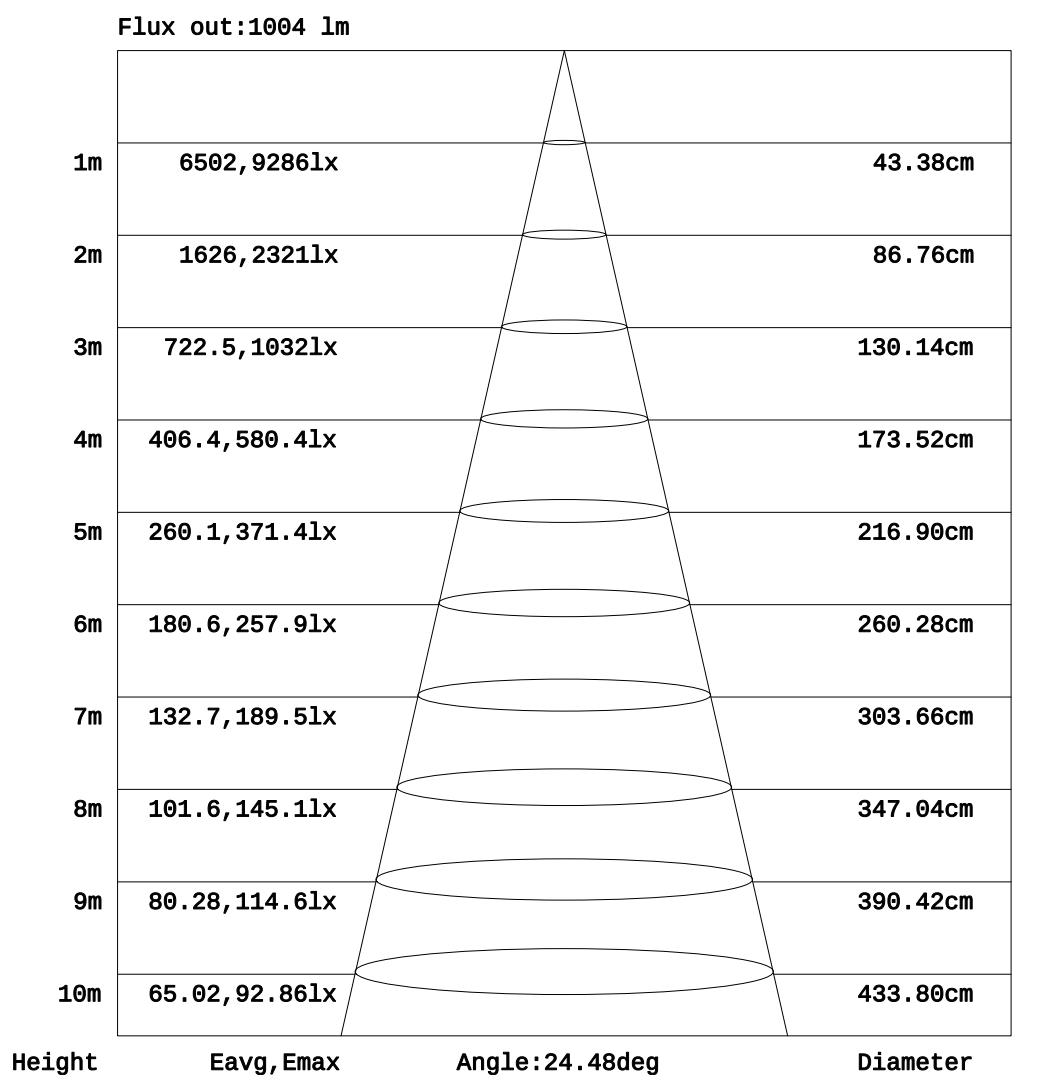


C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: MEDIUM
 Temperature: 28DEG
 Operators: LGL
 Test Date: 2021-08-13

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-VF71RA01-20W	TYPE:indoor lights	WEIGHT:1
SPEC.:3000K-CRI90-24D	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



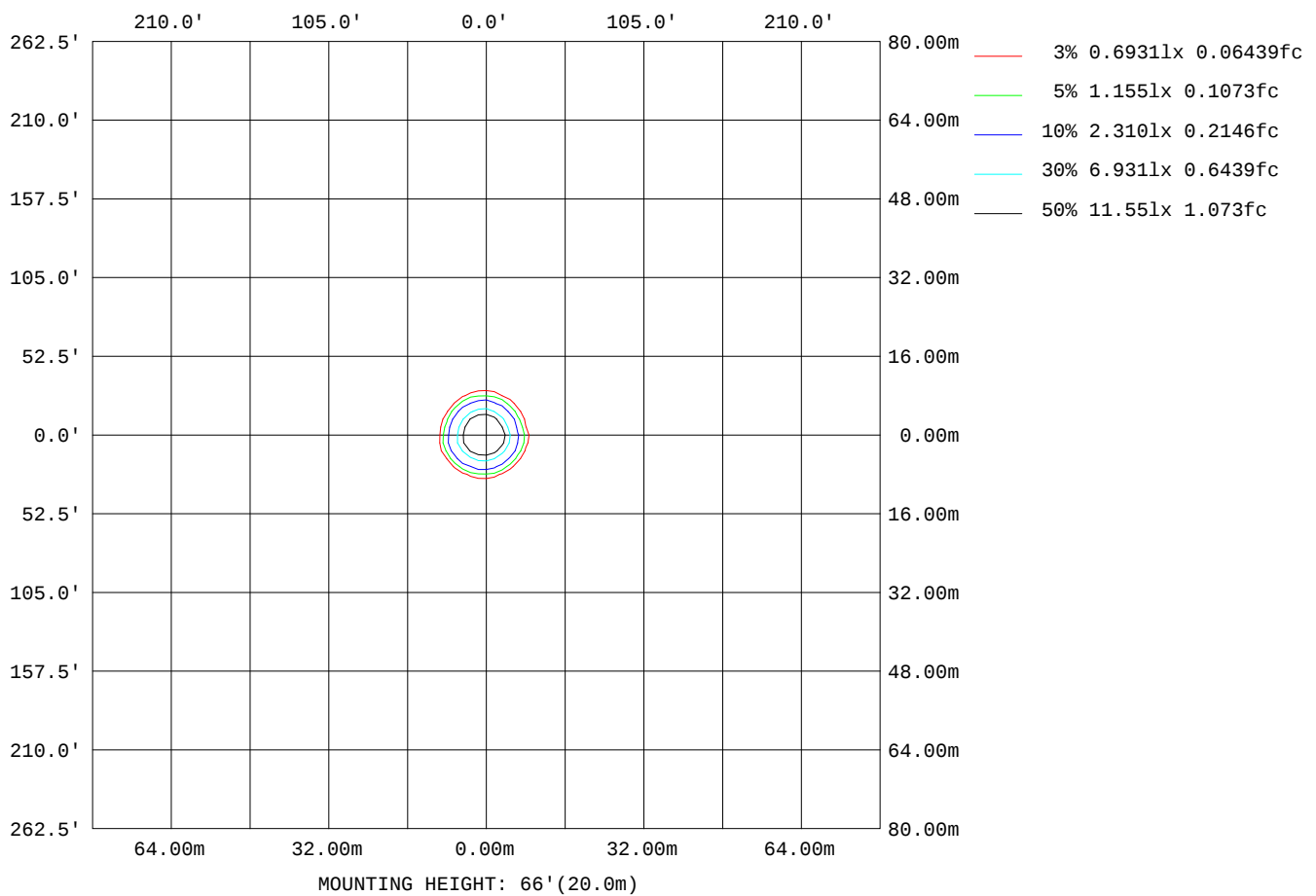
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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-VF71RA01-20W	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-VF71RA01-20W	TYPE:indoor lights	WEIGHT:1
SPEC.:3000K-CRI90-24D	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

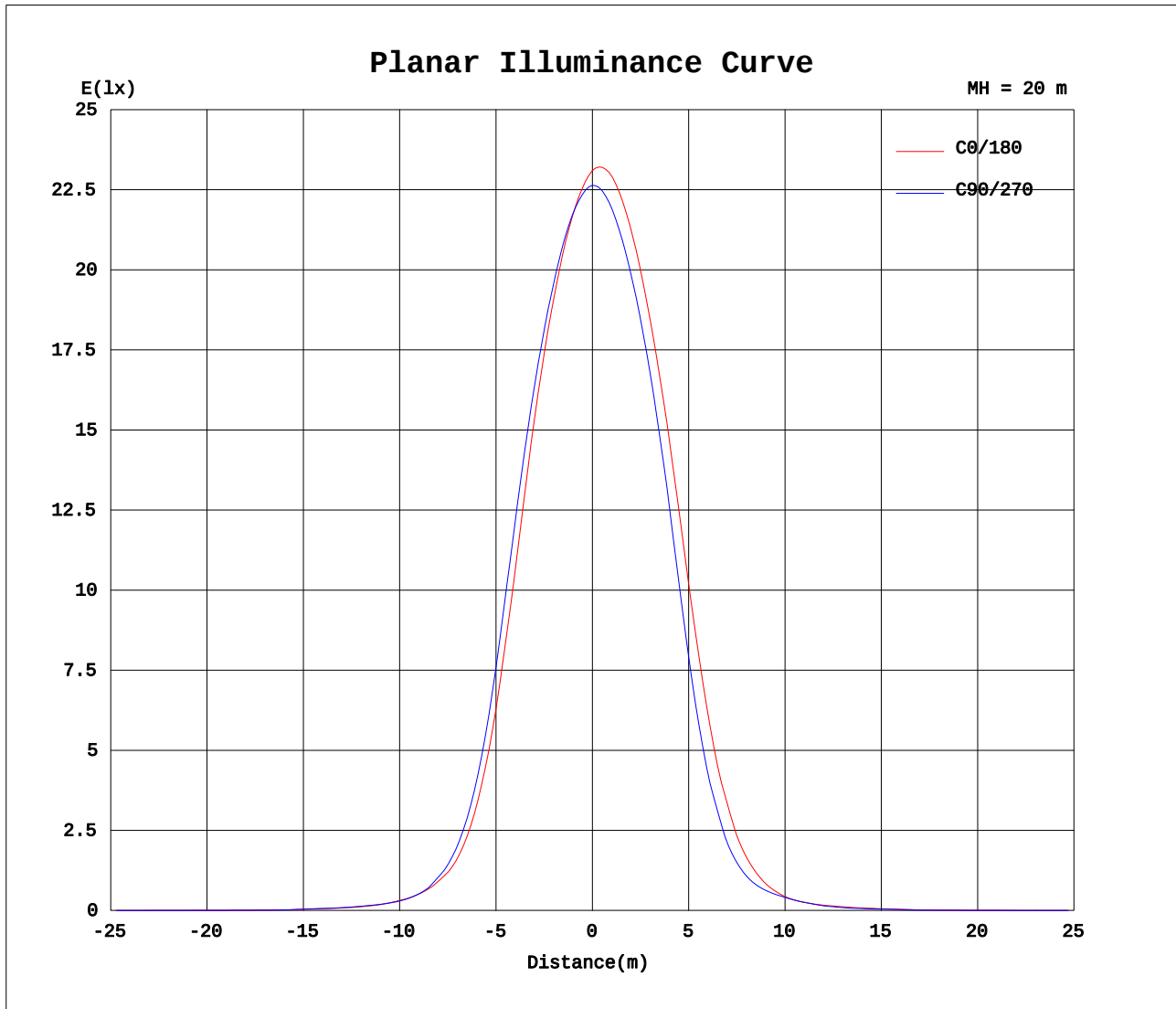
AvgL	cd/m2
L_0~180(65)av	1431
L_0~180(75)av	612
L_0~180(85)av	1084
L_90~270(65)av	223
L_90~270(75)av	201
L_90~270(85)av	690
L_45(65)av	419
L_45(75)av	267
L_45(85)av	724

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-VF71RA01-20W	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	9093	9093	9093	9093	9093	9093	9093	9093	9093	9093	9093	9093	9093	9093	9093	9093	9093	9093	9093
5	7912	7983	7942	7972	8005	8173	8227	8387	8499	8698	8786	8944	8680	8623	8649	8611	8568	8391	8327
10	5329	5464	5404	5480	5561	5909	6005	6285	6476	6854	6997	7283	6825	6727	6779	6736	6664	6335	6176
15	2204	2301	2242	2297	2353	2651	2741	3056	3303	3772	3968	4345	3781	3628	3681	3595	3484	3055	2872
20	649	666	642	658	673	775	811	930	1043	1301	1381	1628	1315	1203	1228	1127	1070	895	846
25	230	224	207	203	202	225	233	263	291	350	382	446	358	331	333	328	331	300	295
30	89.0	88.8	84.8	85.7	88.9	96.0	99.4	107	113	127	131	146	125	115	120	121	127	120	121
35	42.7	43.1	42.0	42.1	43.0	45.8	47.2	51.2	55.9	61.8	64.7	67.6	58.8	56.3	55.9	55.4	53.3	48.3	46.8
40	14.5	15.0	14.6	14.5	14.4	15.4	16.0	17.8	19.4	22.8	25.2	30.3	22.9	21.8	22.5	21.5	20.3	16.7	16.0
45	8.23	7.45	6.37	6.28	6.27	6.86	7.12	7.93	8.61	9.86	10.3	10.9	9.44	9.11	9.18	8.96	8.68	7.92	7.69
50	6.15	6.04	2.60	1.72	1.59	1.72	1.77	2.11	2.38	3.00	3.31	3.85	3.06	3.02	3.26	3.23	3.06	2.49	2.26
55	12.9	16.8	4.99	1.01	0.81	0.69	0.62	0.65	0.62	0.61	0.61	0.64	0.58	0.68	0.82	0.90	0.87	0.78	0.71
60	12.3	11.8	5.08	1.69	0.74	0.64	0.63	0.64	0.60	0.56	0.56	0.52	0.48	0.63	0.76	0.85	0.82	0.77	0.73
65	6.23	5.21	3.78	1.60	0.56	0.53	0.55	0.55	0.50	0.47	0.46	0.41	0.31	0.45	0.50	0.60	0.58	0.52	0.48
70	4.11	3.53	2.13	0.57	0.48	0.44	0.47	0.52	0.51	0.49	0.46	0.41	0.32	0.33	0.28	0.31	0.26	0.24	0.25
75	1.42	1.40	0.56	0.52	0.45	0.33	0.31	0.31	0.37	0.44	0.46	0.42	0.29	0.26	0.25	0.24	0.24	0.24	0.26
80	0.64	0.66	0.53	0.50	0.44	0.36	0.31	0.32	0.32	0.36	0.38	0.38	0.27	0.26	0.26	0.24	0.25	0.24	0.28
85	0.70	0.50	0.46	0.41	0.40	0.37	0.35	0.34	0.33	0.37	0.37	0.42	0.32	0.29	0.29	0.27	0.28	0.28	0.30
90	0.55	0.45	0.43	0.40	0.38	0.38	0.36	0.37	0.37	0.40	0.39	0.42	0.37	0.34	0.34	0.31	0.32	0.31	0.35
95	2.86	1.37	0.74	0.75	0.47	0.40	0.38	0.38	0.40	0.45	0.48	0.55	0.43	0.39	0.39	0.36	0.37	0.36	0.40
100	1.66	1.79	1.47	0.98	0.52	0.42	0.41	0.40	0.42	0.49	0.54	0.57	0.55	0.46	0.43	0.41	0.41	0.41	0.45
105	1.19	1.30	0.92	0.73	0.56	0.46	0.44	0.44	0.45	0.48	0.54	0.57	0.55	0.49	0.47	0.44	0.45	0.45	0.48
110	1.41	1.33	0.96	0.75	0.56	0.54	0.47	0.49	0.49	0.52	0.54	0.58	0.59	0.52	0.50	0.48	0.47	0.48	0.51
115	1.69	1.43	1.08	0.74	0.58	0.66	0.57	0.58	0.55	0.61	0.64	0.68	0.66	0.58	0.55	0.53	0.52	0.56	0.61
120	1.94	1.70	1.41	1.00	0.92	0.94	0.85	0.83	0.81	0.78	0.87	0.89	0.89	0.82	0.75	0.75	0.74	0.82	0.92
125	2.86	2.64	2.37	2.15	2.11	1.97	1.80	1.69	1.62	1.48	1.42	1.36	1.59	1.58	1.53	1.53	1.55	1.71	1.85
130	5.35	5.12	5.10	5.08	5.01	4.52	4.29	4.02	3.81	3.49	3.29	3.04	3.62	3.69	3.69	3.67	3.74	4.08	4.25
135	9.81	9.67	9.82	9.82	9.61	8.92	8.62	8.17	7.83	7.31	7.11	6.68	7.53	7.66	7.57	7.62	7.69	8.18	8.48
140	15.8	15.6	15.7	15.4	15.2	14.5	14.2	13.6	13.1	12.4	12.3	11.9	12.8	13.0	12.8	12.8	13.1	13.6	14.0
145	21.8	21.3	21.2	20.9	20.7	20.2	20.0	19.4	19.0	18.2	18.0	17.6	18.5	18.6	18.5	18.6	18.8	19.4	19.8
150	25.6	25.4	25.3	25.3	25.3	25.0	24.9	24.5	24.1	23.6	23.3	23.0	23.6	23.7	23.7	23.8	24.1	24.5	24.9
155	27.5	27.5	27.4	27.5	27.7	27.8	27.8	27.7	27.5	27.2	27.1	27.1	27.2	27.2	27.2	27.3	27.5	27.8	28.0
160	27.2	27.1	26.9	27.2	27.7	28.0	28.1	28.3	28.4	28.3	28.3	28.5	28.2	28.1	28.3	28.3	28.6	28.8	28.9
165	24.0	24.1	23.9	24.3	24.9	25.6	26.1	26.5	26.6	26.8	26.7	27.1	26.5	26.5	26.6	26.6	26.8	26.9	27.0
170	19.5	19.4	19.5	19.6	20.1	20.9	21.6	22.2	22.4	23.0	23.3	23.6	22.8	22.8	23.0	22.9	22.9	22.6	22.3
175	15.8	15.8	15.9	16.4	16.7	16.9	17.3	17.9	18.5	19.2	19.4	19.5	18.5	18.6	18.9	19.1	18.9	18.3	18.1
180	15.8	15.8	16.0	16.3	16.2	16.0	16.4	16.3	16.4	16.8	16.5	16.4	15.8	15.8	16.0	16.3	16.2	16.0	16.3

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-VF71RA01-20W	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	9093	9093	9093	9093	9093														
5	8180	8076	7875	7815	7685														
10	5849	5608	5218	5101	4842														
15	2587	2425	2136	2068	1858														
20	749	704	620	600	559														
25	281	278	254	239	213														
30	111	103	90.5	86.4	79.0														
35	44.3	43.6	41.5	41.1	38.8														
40	15.2	14.8	13.9	13.6	12.9														
45	7.13	6.71	6.10	7.06	7.53														
50	1.94	1.72	1.73	6.35	8.42														
55	0.68	0.69	1.47	15.7	17.3														
60	0.71	0.72	1.79	10.2	11.6														
65	0.43	0.42	1.16	4.46	6.56														
70	0.26	0.27	0.31	2.01	3.86														
75	0.26	0.28	0.30	0.34	0.68														
80	0.28	0.29	0.30	0.33	0.42														
85	0.30	0.33	0.31	0.36	0.34														
90	0.37	0.40	0.37	0.41	0.41														
95	0.39	0.42	0.48	1.50	2.67														
100	0.45	0.47	0.60	0.65	0.83														
105	0.48	0.52	0.61	0.71	0.88														
110	0.52	0.58	0.68	0.88	1.21														
115	0.63	0.64	0.76	1.13	1.65														
120	0.97	0.98	1.05	1.75	2.44														
125	2.10	2.17	2.44	2.85	3.63														
130	4.74	5.01	5.47	5.74	6.22														
135	9.08	9.59	10.3	10.5	11.1														
140	14.7	15.3	16.1	16.5	17.2														
145	20.5	20.9	21.6	22.3	23.0														
150	25.3	25.6	26.0	26.2	26.7														
155	28.2	28.2	28.2	28.1	28.2														
160	28.7	28.4	28.4	27.5	27.2														
165	26.5	25.8	25.0	24.6	24.1														
170	21.8	21.1	20.3	20.0	19.6														
175	17.8	17.6	17.2	16.4	16.1														
180	16.3	16.4	16.8	16.6	16.4														

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: