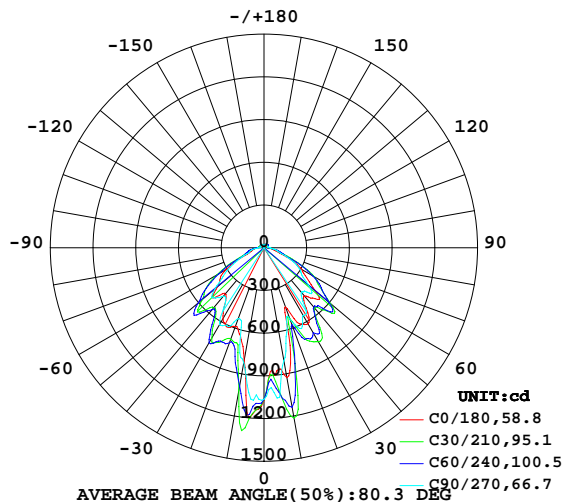


LUMINAIRE PHOTOMETRIC TEST REPORT

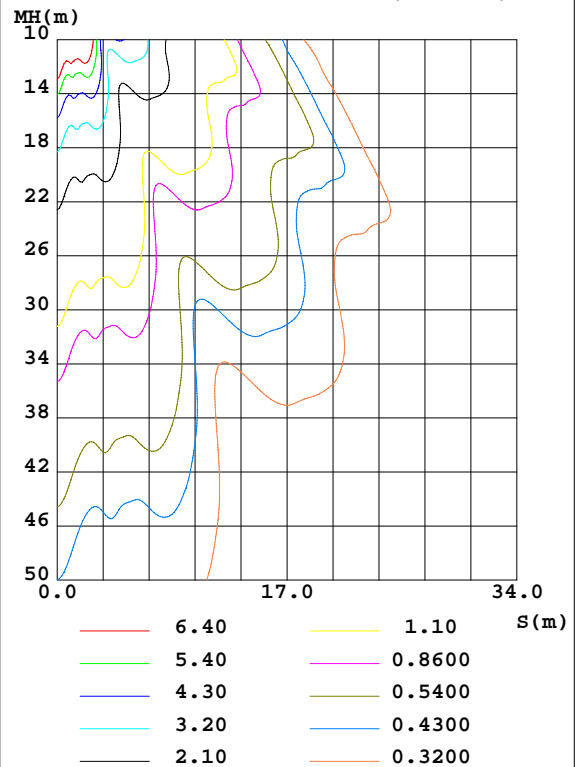
Test:U:120.00V I:0.1651A P:19.740W PF:0.9964 Freq:60.00Hz Lamp Flux:2423.44x1 lm		
NAME: Explosion Proof Light	TYPE: LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: VENAS Co.,LIMITED	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 122.77 lm/W			
MODEL	EX-20W OY50D120	I _{max} (cd)	1308	S/MH(C0/180)	0.61
NOMINAL POWER(W)	20	LOR(%)	100.0	S/MH(C90/270)	0.57
RATED VOLTAGE(V)	120-277	TOTAL FLUX(lm)	2423.4	η UP,DN(C0-180)	3.8,45.7
NOMINAL FLUX(lm)	2423.44	CIE CLASS	DIRECT	η UP,DN(C180-360)	3.7,46.8
LAMPS INSIDE	1	η up(%)	7.5	CIBSE SHR NOM	1.00
TEST VOLTAGE(V)	120	η down(%)	92.5	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: HIGH
 Temperature: 24.8DEG
 Operators: Alan Wang
 Test Date: 03 November 2022

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.416
 Humidity: 42.3%
 Test Distance: 2.500m [K=1.0460]
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	925.7	1299	806.7	1061	804.0	1069	820.9	1149	0- 10	98.30	98.30	4.06,4.06
20	441.9	551.4	535.0	656.7	590.4	697.2	529.4	510.8	10- 20	207.9	306.2	12.6,12.6
30	618.2	712.5	550.2	714.4	577.5	806.8	622.2	779.5	20- 30	305.6	611.8	25.2,25.2
40	442.5	550.2	414.6	513.0	427.3	552.5	445.1	562.9	30- 40	372.1	983.9	40.6,40.6
50	469.8	610.1	409.2	519.3	424.0	587.5	450.3	612.0	40- 50	430.0	1414	58.3,58.3
60	305.5	408.0	283.8	398.9	309.6	382.1	276.5	396.3	50- 60	392.2	1806	74.5,74.5
70	133.2	162.3	143.8	151.8	117.7	152.1	130.4	180.2	60- 70	254.4	2060	85,85
80	62.40	82.91	81.17	94.92	79.14	98.23	86.30	79.76	70- 80	117.8	2178	89.9,89.9
90	25.82	26.45	39.05	46.38	42.94	47.43	32.30	27.29	80- 90	64.25	2242	92.5,92.5
100	24.79	25.58	29.28	35.24	34.28	26.25	26.62	25.35	90-100	35.55	2278	94,94
110	26.60	28.83	28.74	28.35	28.90	27.54	28.09	26.97	100-110	30.43	2308	95.3,95.3
120	27.50	30.65	28.16	31.65	29.16	31.04	28.85	30.43	110-120	28.15	2337	96.4,96.4
130	28.51	35.61	29.24	33.94	28.86	32.97	28.58	32.51	120-130	28.60	2365	97.6,97.6
140	28.34	32.82	28.53	31.92	28.48	31.80	28.53	30.91	130-140	24.36	2390	98.6,98.6
150	27.37	29.17	26.32	28.66	27.07	28.62	26.54	27.66	140-150	18.50	2408	99.4,99.4
160	20.17	20.02	18.94	18.22	19.20	18.29	18.86	19.13	150-160	11.43	2420	99.8,99.8
170	4.780	5.244	5.351	5.286	3.907	3.379	3.551	3.873	160-170	3.742	2423	100,100
180	1.145	1.150	1.152	1.149	1.150	1.156	1.144	1.154	170-180	0.1915	2423	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 1180.7 lm

%lum = 48.7%

%lamp = 48.7%

Conical surface Flux(120deg): 1806 lm

%lum = 74.5%

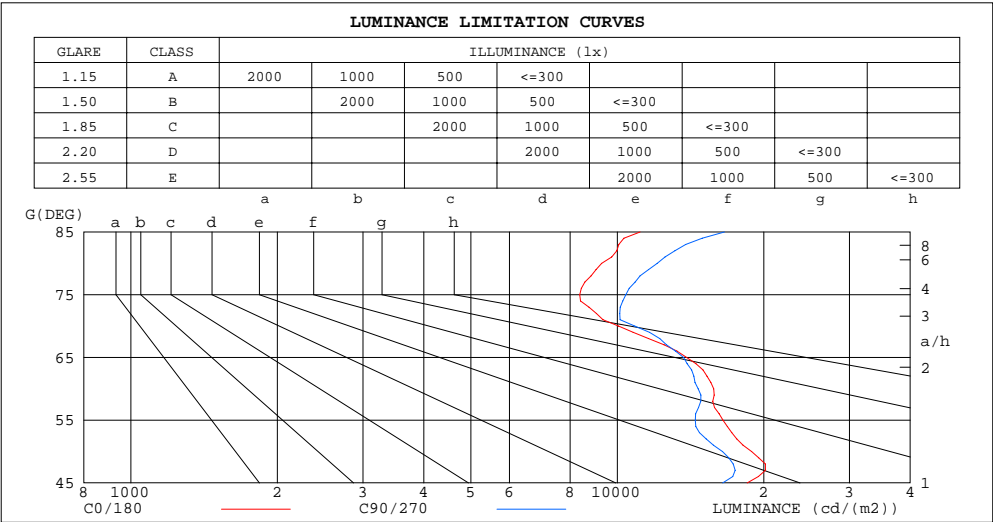
%lamp = 74.5%

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 24.8DEG
 Operators: Alan Wang
 Test Date: 03 November 2022

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.416
 Humidity: 42.3%
 Test Distance: 2.500m [K=1.0460]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:120.00V I:0.1651A P:19.740W PF:0.9964 Freq:60.00Hz Lamp Flux:2423.44x1 lm		
NAME: Explosion Proof Light	TYPE: LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: VENAS Co.,LIMITED	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	11135	16607
80	9285	12078
75	8369	10407
70	10065	10865
65	13883	13683
60	15787	14668
55	16494	14469
50	18885	16448
45	18485	16465

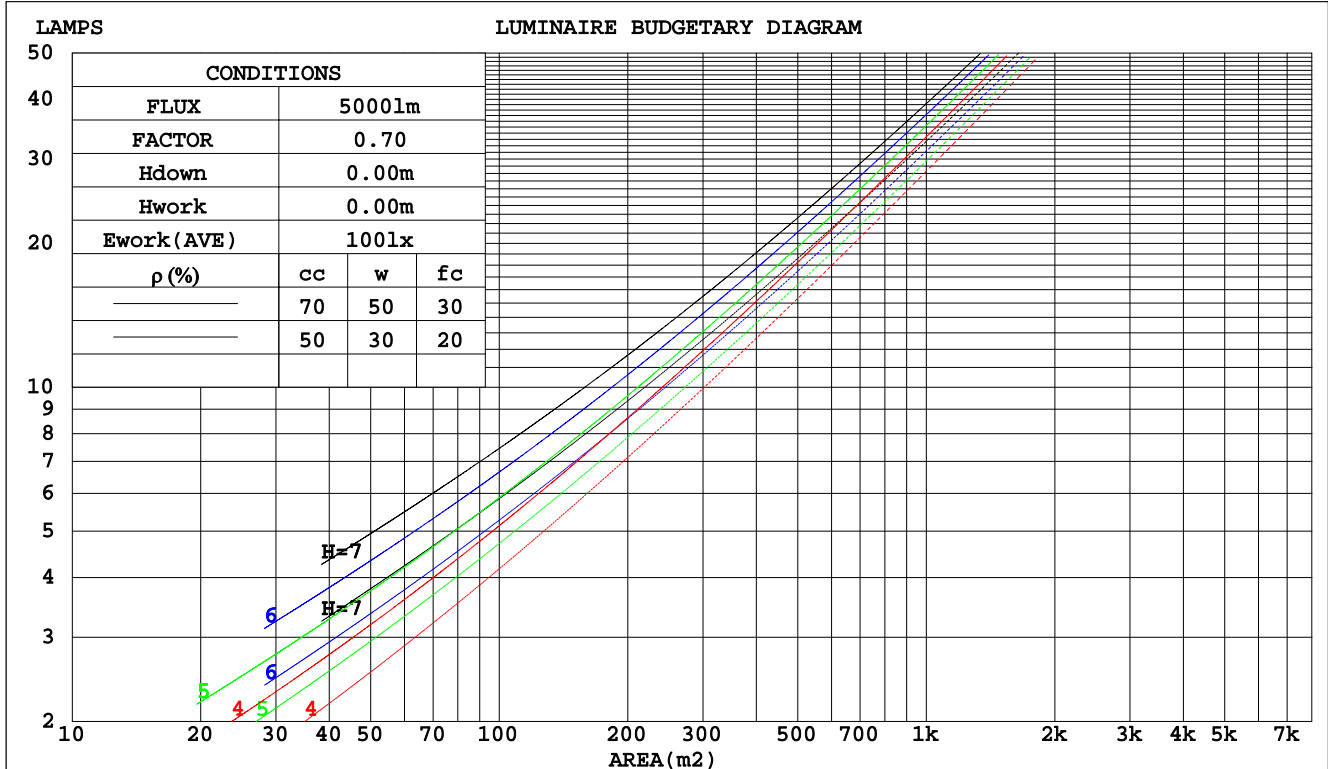
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 24.8DEG
Operators:Alan Wang
Test Date:03 November 2022

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.416
Humidity: 42.3%
Test Distance:2.500m [K=1.0460]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.00V I:0.1651A P:19.740W PF:0.9964 Freq:60.00Hz Lamp Flux:2423.44x1 lm		
NAME: Explosion Proof Light	TYPE: LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: VENAS Co.,LIMITED	SUR.:	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Coefficients of Utilization(CU)									
0.0	1.17	1.17	1.17	1.14	1.14	1.14	1.07	1.07	1.07	1.01	1.01	1.01	.95	.95	.95	.93
1.0	1.02	.98	.94	.99	.95	.92	.94	.91	.88	.89	.86	.84	.84	.82	.80	.77
2.0	.89	.83	.77	.87	.81	.76	.82	.77	.73	.78	.74	.70	.74	.70	.67	.65
3.0	.79	.71	.64	.76	.69	.63	.72	.66	.61	.69	.63	.59	.65	.61	.57	.55
4.0	.70	.61	.54	.68	.60	.54	.64	.57	.52	.61	.55	.51	.58	.53	.49	.47
5.0	.62	.53	.47	.61	.52	.46	.58	.50	.45	.55	.49	.44	.52	.47	.43	.40
6.0	.56	.47	.41	.55	.46	.40	.52	.45	.39	.50	.43	.38	.47	.42	.38	.35
7.0	.51	.42	.36	.50	.41	.36	.47	.40	.35	.45	.39	.34	.43	.38	.33	.31
8.0	.46	.38	.32	.45	.37	.32	.43	.36	.31	.41	.35	.30	.40	.34	.30	.28
9.0	.42	.34	.29	.42	.34	.29	.40	.33	.28	.38	.32	.28	.37	.31	.27	.25
10.0	.39	.31	.26	.38	.31	.26	.37	.30	.25	.35	.29	.25	.34	.29	.25	.23



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 24.8DEG
 Operators: Alan Wang
 Test Date: 03 November 2022

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.416
 Humidity: 42.3%
 Test Distance: 2.500m [K=1.0460]
 Remarks:

WEC AND CCEC

Test:U:120.00V I:0.1651A P:19.740W PF:0.9964 Freq:60.00Hz Lamp Flux:2423.44x1 lm					
NAME: Explosion Proof Light			TYPE: LED		WEIGHT:
SPEC.:			DIM.:		SERIAL No.:
MFR.: VENAS Co.,LIMITED			SUR.:		Shielding Angle:

pcc	80%			70%			50%			30%			10%			0	
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
pfc	20%			20%			20%			20%			20%			0	
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)										
0.0																	
1.0	.306	.174	.055	.297	.169	.054	.279	.160	.051	.263	.152	.049	.248	.144	.046		
2.0	.285	.156	.048	.277	.152	.047	.261	.145	.045	.247	.138	.043	.233	.132	.042		
3.0	.264	.140	.042	.256	.137	.041	.242	.131	.040	.229	.126	.039	.217	.120	.037		
4.0	.244	.127	.037	.237	.124	.037	.224	.119	.036	.213	.114	.034	.202	.110	.033		
5.0	.226	.115	.033	.220	.113	.033	.208	.108	.032	.198	.104	.031	.188	.100	.030		
6.0	.209	.105	.030	.204	.103	.030	.194	.099	.029	.184	.096	.028	.175	.092	.027		
7.0	.195	.096	.027	.190	.095	.027	.181	.092	.026	.172	.088	.026	.164	.085	.025		
8.0	.182	.089	.025	.178	.088	.025	.170	.085	.024	.162	.082	.024	.154	.079	.023		
9.0	.171	.083	.023	.167	.081	.023	.159	.079	.022	.152	.076	.022	.145	.074	.021		
10.0	.161	.077	.021	.157	.076	.021	.150	.074	.021	.143	.071	.020	.137	.069	.020		

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.247	.247	.247	.211	.211	.211	.144	.144	.144	.083	.083	.083	.027	.027	.027	
1.0	.237	.214	.192	.203	.183	.165	.139	.126	.114	.080	.073	.066	.026	.023	.021	
2.0	.229	.190	.157	.196	.163	.135	.134	.113	.094	.078	.066	.055	.025	.021	.018	
3.0	.221	.172	.133	.190	.149	.116	.130	.103	.081	.075	.060	.048	.024	.020	.016	
4.0	.214	.159	.117	.183	.138	.102	.126	.096	.072	.073	.056	.043	.023	.018	.014	
5.0	.207	.149	.106	.177	.129	.093	.122	.090	.065	.071	.053	.039	.023	.017	.013	
6.0	.200	.141	.098	.171	.122	.086	.118	.085	.061	.069	.050	.036	.022	.016	.012	
7.0	.193	.134	.093	.166	.116	.081	.115	.081	.057	.067	.048	.034	.022	.016	.011	
8.0	.187	.128	.088	.161	.111	.077	.111	.078	.054	.065	.046	.032	.021	.015	.011	
9.0	.181	.123	.085	.156	.107	.074	.108	.075	.052	.063	.044	.031	.020	.015	.010	
10.0	.175	.119	.082	.151	.103	.071	.105	.073	.051	.061	.043	.030	.020	.014	.010	

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 24.8DEG
 Operators: Alan Wang
 Test Date: 03 November 2022

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.416
 Humidity: 42.3%
 Test Distance: 2.500m [K=1.0460]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:120.00V I:0.1651A P:19.740W PF:0.9964 Freq:60.00Hz Lamp Flux:2423.44x1 lm											
NAME: Explosion Proof Light					TYPE: LED			WEIGHT:			
SPEC.:					DIM.:			SERIAL No.:			
MFR.: VENAS Co.,LIMITED					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	22.4	23.9	22.9	24.4	24.9	22.2	23.7	22.7	24.1	24.6	
	3H	23.6	24.9	24.1	25.4	25.9	23.5	24.9	24.0	25.3	25.9
	4H	23.8	25.1	24.3	25.6	26.1	23.9	25.1	24.4	25.6	26.2
	6H	24.1	25.3	24.6	25.8	26.3	24.3	25.5	24.8	26.0	26.5
	8H	24.2	25.3	24.8	25.9	26.4	24.5	25.6	25.1	26.2	26.7
12H	24.3	25.4	24.9	25.9	26.5	24.8	25.8	25.3	26.3	26.9	
4H	2H	23.0	24.2	23.5	24.7	25.3	22.9	24.1	23.4	24.6	25.2
	3H	24.2	25.3	24.7	25.8	26.4	24.2	25.3	24.8	25.8	26.4
	4H	24.6	25.6	25.2	26.1	26.7	24.7	25.7	25.3	26.2	26.8
	6H	25.0	25.9	25.6	26.4	27.1	25.3	26.2	25.9	26.7	27.4
	8H	25.2	26.0	25.8	26.6	27.2	25.7	26.4	26.2	27.0	27.6
12H	25.4	26.1	26.0	26.7	27.3	26.0	26.7	26.6	27.3	27.9	
8H	4H	24.8	25.6	25.4	26.2	26.8	24.9	25.7	25.5	26.2	26.9
	6H	25.4	26.0	26.0	26.7	27.3	25.7	26.4	26.3	27.0	27.6
	8H	25.7	26.3	26.3	26.9	27.5	26.2	26.8	26.8	27.4	28.1
	12H	26.0	26.5	26.6	27.1	27.8	26.8	27.3	27.4	27.9	28.6
	12H	4H	24.8	25.5	25.4	26.1	26.8	24.9	25.6	25.5	26.2
6H	25.5	26.1	26.1	26.6	27.3	25.8	26.4	26.5	27.0	27.7	
8H	25.8	26.3	26.4	26.9	27.7	26.4	26.9	27.0	27.5	28.3	
CIE190: 2010											

CIE190: 2010
Area: 0.0387005 m2

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 24.8DEG
Operators: Alan Wang
Test Date: 03 November 2022

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.416
Humidity: 42.3%
Test Distance: 2.500m [K=1.0460]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:120.00V I:0.1651A P:19.740W PF:0.9964 Freq:60.00Hz Lamp Flux:2423.44x1 lm		
NAME: Explosion Proof Light	TYPE: LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: VENAS Co.,LIMITED	SUR.:	Shielding Angle:

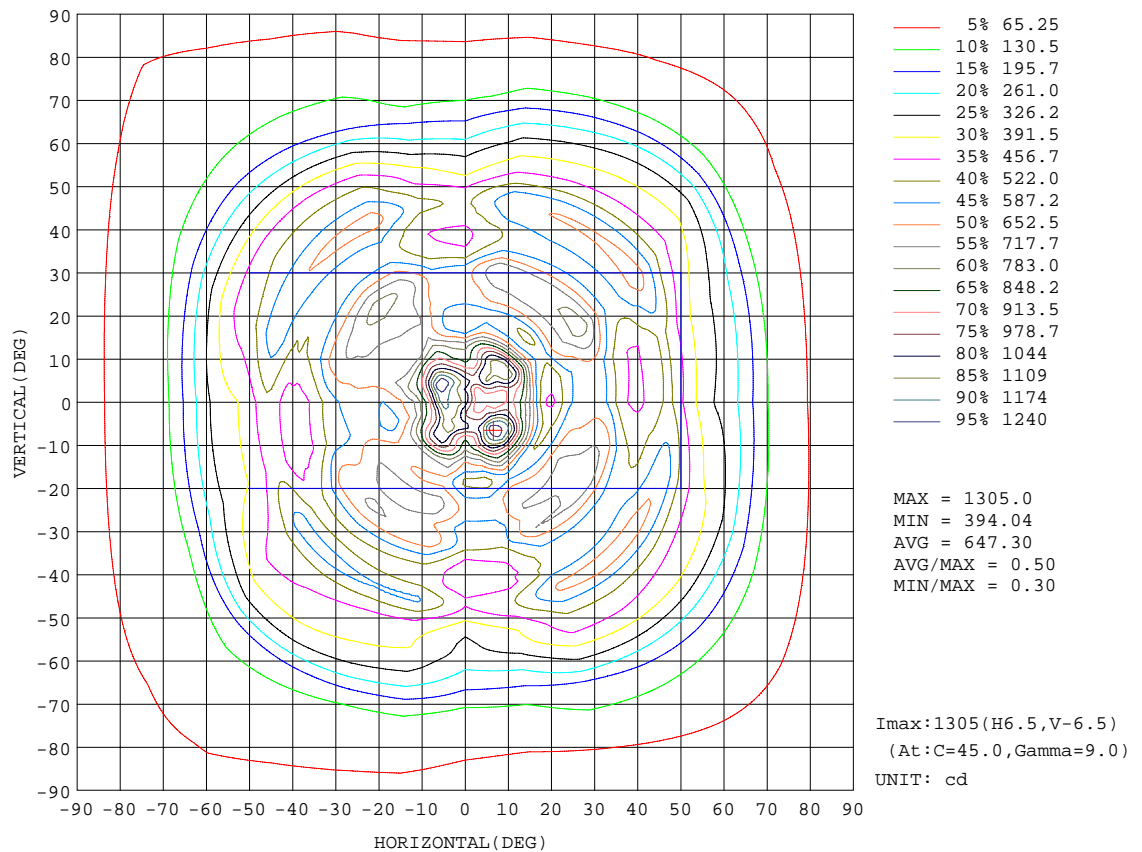
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	54	43	36	54	42	36	52	42	35	29
0.80	65	53	46	63	52	45	61	51	45	37
1.00	73	62	55	72	61	54	69	62	53	46
1.25	81	70	63	79	69	62	75	67	61	53
1.50	86	76	68	84	74	68	80	72	66	58
2.00	93	84	77	90	82	76	86	79	74	65
2.50	97	89	82	94	87	81	89	83	78	68
3.00	100	93	87	97	91	86	92	87	82	72
4.00	104	98	93	101	96	91	95	91	87	77
5.00	106	101	97	103	99	95	97	94	91	79
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: HIGH
 Temperature: 24.8DEG
 Operators: Alan Wang
 Test Date: 03 November 2022

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.416
 Humidity: 42.3%
 Test Distance: 2.500m [K=1.0460]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:120.00V I:0.1651A P:19.740W PF:0.9964 Freq:60.00Hz Lamp Flux:2423.44x1 lm		
NAME: Explosion Proof Light	TYPE: LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: VENAS Co.,LIMITED	SUR.:	Shielding Angle:



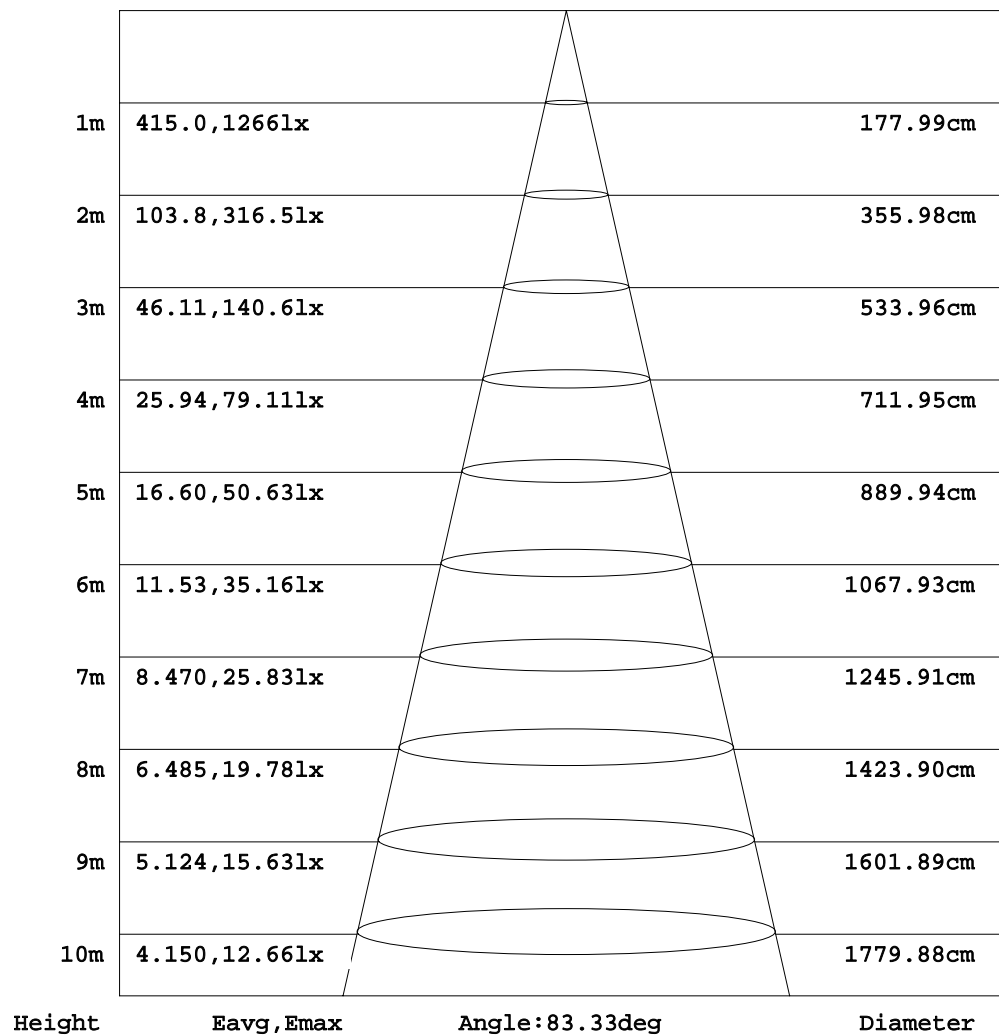
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 24.8DEG
Operators: Alan Wang
Test Date: 03 November 2022

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.416
Humidity: 42.3%
Test Distance: 2.500m [K=1.0460]
Remarks:

AAI Figure

Test:U:120.00V I:0.1651A P:19.740W PF:0.9964 Freq:60.00Hz Lamp Flux:2423.44x1 lm		
NAME: Explosion Proof Light	TYPE: LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: VENAS Co.,LIMITED	SUR.:	Shielding Angle:

Flux out:1057 lm



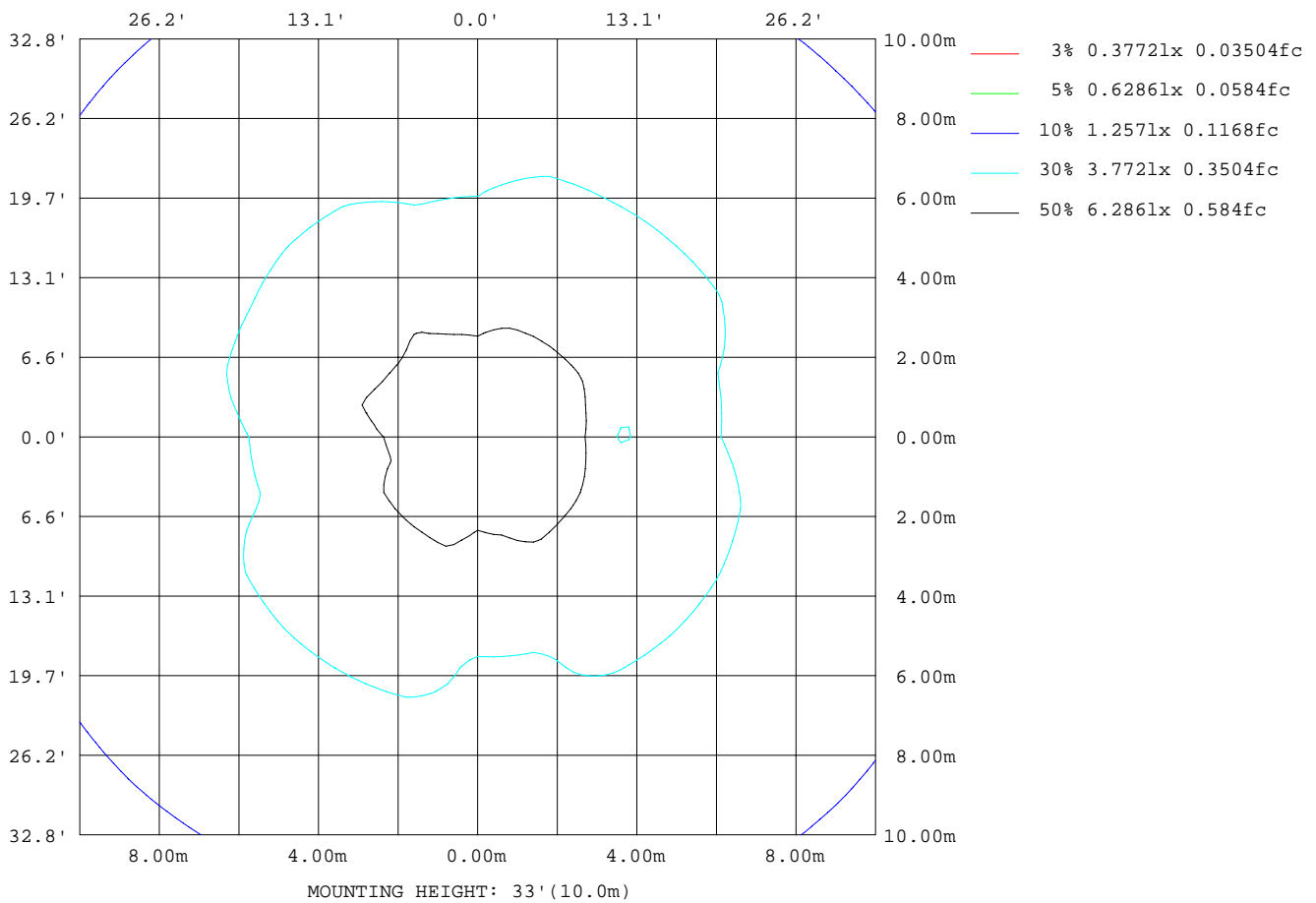
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 24.8DEG
 Operators: Alan Wang
 Test Date: 03 November 2022

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.416
 Humidity: 42.3%
 Test Distance: 2.500m [K=1.0460]
 Remarks:

ISOLUX DIAGRAM

Test:U:120.00V I:0.1651A P:19.740W PF:0.9964 Freq:60.00Hz Lamp Flux:2423.44x1 lm		
NAME: Explosion Proof Light	TYPE: LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: VENAS Co.,LIMITED	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 24.8DEG
 Operators: Alan Wang
 Test Date: 03 November 2022

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.416
 Humidity: 42.3%
 Test Distance: 2.500m [K=1.0460]
 Remarks:

LED Avg.L Report

Test:U:120.00V I:0.1651A P:19.740W PF:0.9964 Freq:60.00Hz Lamp Flux:2423.44x1 lm		
NAME: Explosion Proof Light	TYPE: LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: VENAS Co.,LIMITED	SUR.:	Shielding Angle:

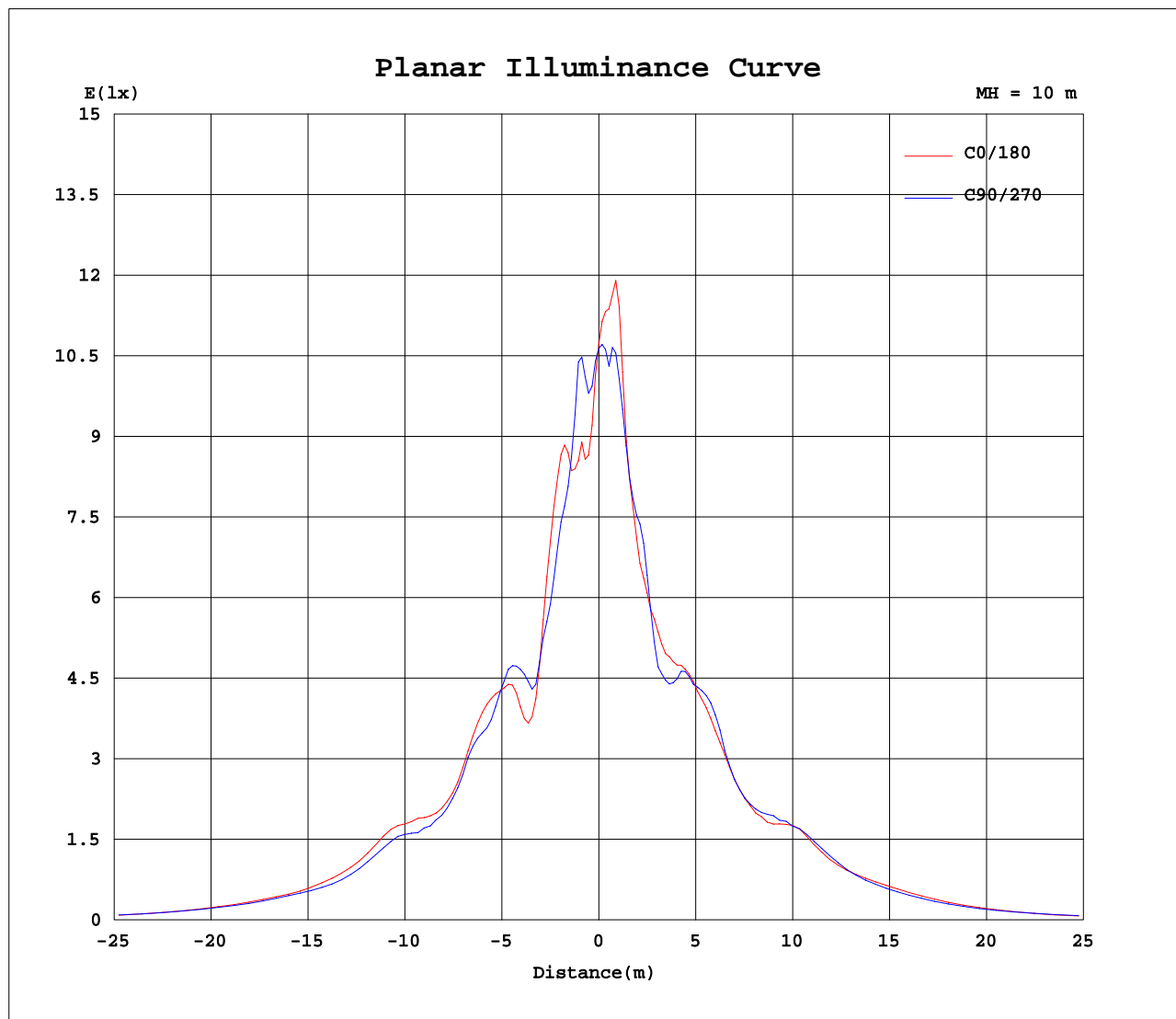
AvgL	cd/m2
L_0~180(65)av	13173
L_0~180(75)av	8747
L_0~180(85)av	14311
L_90~270(65)av	12917
L_90~270(75)av	10399
L_90~270(85)av	16612
L_45(65)av	17399
L_45(75)av	11401
L_45(85)av	16684

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 24.8DEG
Operators: Alan Wang
Test Date: 03 November 2022

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.416
Humidity: 42.3%
Test Distance: 2.500m [K=1.0460]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 24.8DEG
Operators: Alan Wang
Test Date: 03 November 2022

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.416
Humidity: 42.3%
Test Distance: 2.500m [K=1.0460]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.00V I:0.1651A P:19.740W PF:0.9964 Freq:60.00Hz Lamp Flux:2423.44x1 lm		
NAME: Explosion Proof Light	TYPE: LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: VENAS Co.,LIMITED	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	1073	1070	1067	1066	1065	1064	1064	1065	1066	1068	1070	1072	1073	1070	1067	1066	1065	1064	1064
5	900	922	944	961	991	1023	1060	1069	1084	1126	1154	1186	1204	1207	1205	1197	1174	1118	1067
10	926	1006	1214	1299	1137	914	807	935	1074	1061	893	809	804	901	1019	1069	986	871	821
15	709	751	842	856	842	662	617	735	720	713	708	610	641	738	707	701	789	690	641
20	442	508	527	551	574	507	535	651	643	657	677	581	590	692	683	697	709	582	529
25	589	653	717	691	703	611	627	740	753	753	703	616	615	697	731	752	724	618	609
30	618	695	762	712	690	551	550	661	697	714	677	566	578	703	735	807	772	618	622
35	517	648	684	676	646	506	494	632	642	647	628	482	475	584	593	625	621	502	475
40	443	517	551	550	546	439	415	496	504	513	520	430	427	529	557	552	569	458	445
45	506	577	631	626	622	478	451	564	572	590	597	489	498	616	639	657	669	525	494
50	470	582	610	610	596	474	409	504	502	519	515	421	424	537	562	587	603	489	450
55	366	448	476	490	492	383	321	404	420	450	468	375	376	479	498	499	494	401	351
60	305	382	409	408	396	310	284	372	382	399	401	313	310	385	385	382	367	288	276
65	227	284	286	282	278	224	224	298	303	302	288	213	204	259	257	246	237	203	199
70	133	173	173	162	157	137	144	184	171	152	144	120	118	145	151	152	149	124	130
75	83.8	109	113	118	122	104	104	121	115	114	112	92.8	91.4	110	112	117	121	103	104
80	62.4	78.1	83.3	82.9	82.8	74.0	81.2	98.8	94.8	94.9	94.2	78.7	79.1	94.9	96.3	98.2	102	86.9	86.3
85	37.6	43.7	45.4	44.1	46.7	45.1	56.0	72.0	71.0	68.1	67.4	57.8	59.0	70.4	68.7	68.4	71.4	61.2	56.0
90	25.8	30.8	29.8	26.5	28.1	28.7	39.1	49.1	47.8	46.4	48.6	42.7	42.9	52.4	48.4	47.4	50.7	42.3	32.3
95	24.1	25.9	23.9	24.2	26.8	27.7	32.5	39.7	40.0	39.6	41.6	38.4	39.5	46.0	40.7	37.2	33.4	29.1	26.4
100	24.8	26.7	25.2	25.6	27.5	28.4	29.3	34.4	35.0	35.2	36.7	34.4	34.3	37.6	30.9	26.3	26.1	26.9	26.6
105	25.9	27.7	26.9	27.5	28.6	29.4	28.2	31.9	32.6	33.3	33.6	31.9	29.1	29.4	27.2	26.9	27.5	28.2	27.9
110	26.6	28.1	27.8	28.8	29.6	30.5	28.7	30.3	29.8	28.3	28.2	28.9	28.9	29.7	27.8	27.5	27.7	28.2	28.1
115	25.8	27.7	26.9	27.5	28.6	29.0	26.8	28.7	28.3	28.0	28.5	28.5	27.7	29.2	27.2	27.0	27.6	27.4	26.7
120	27.5	30.5	30.3	30.7	31.2	31.0	28.2	31.2	31.6	31.6	31.0	30.2	29.2	31.7	31.0	31.0	30.9	29.8	28.9
125	29.0	33.0	33.6	34.6	34.4	32.8	29.6	33.5	33.3	33.5	32.6	30.9	30.0	33.2	32.3	33.1	32.3	30.1	29.6
130	28.5	33.1	34.3	35.6	34.9	32.8	29.2	33.4	33.6	33.9	32.6	30.0	28.9	32.6	32.1	33.0	31.9	29.2	28.6
135	28.4	33.0	33.6	34.7	34.7	32.8	28.9	32.8	32.2	32.7	31.6	28.9	28.0	31.2	31.6	33.1	31.9	29.1	29.1
140	28.3	31.1	32.1	32.8	32.4	31.6	28.5	31.7	31.3	31.9	31.0	29.2	28.5	30.7	31.2	31.8	30.8	28.5	28.5
145	28.0	30.4	31.0	31.9	31.4	30.7	27.6	29.9	29.8	30.3	29.5	28.4	28.3	29.4	29.6	30.4	29.5	27.9	28.4
150	27.4	27.9	28.5	29.2	29.1	28.7	26.3	28.1	28.2	28.7	27.5	26.7	27.1	27.9	27.8	28.6	27.7	26.9	26.5
155	24.4	25.9	26.1	26.6	25.6	25.5	23.7	24.8	24.7	24.9	24.0	23.2	23.8	24.6	24.7	25.1	24.8	24.1	23.7
160	20.2	20.2	19.9	20.0	19.5	19.7	18.9	19.6	18.7	18.2	18.0	18.8	19.2	19.4	18.9	18.3	18.5	18.5	18.9
165	13.6	13.8	12.7	13.4	13.8	13.2	14.8	15.3	14.2	13.5	13.8	13.3	13.8	13.7	12.9	11.3	12.4	11.4	11.3
170	4.78	5.04	4.94	5.24	5.26	5.04	5.35	5.60	5.40	5.29	4.91	3.96	3.91	3.93	3.76	3.38	3.37	3.49	3.55
175	1.05	1.07	1.07	1.07	1.07	1.05	1.05	1.07	1.08	1.08	1.06	1.04	1.28	1.28	1.30	1.30	1.28	1.28	1.27
180	1.14	1.15	1.15	1.15	1.14	1.14	1.15	1.15	1.15	1.15	1.14	1.15	1.15	1.15	1.15	1.16	1.15	1.14	1.14

C Range: 0 - 360DEG

C Interval: 15.0DEG

Test Speed: HIGH

Temperature: 24.8DEG

Operators: Alan Wang

Test Date: 03 November 2022

γ Range: 0 - 180DEG

γ Interval: 1.0DEG

Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.416

Humidity: 42.3%

Test Distance: 2.500m [K=1.0460]

Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.00V I:0.1651A P:19.740W PF:0.9964 Freq:60.00Hz Lamp Flux:2423.44x1 lm		
NAME: Explosion Proof Light	TYPE: LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: VENAS Co.,LIMITED	SUR.:	Shielding Angle:

Table--2

UNIT: cd

C(DEC) γ (DEC)	285	300	315	330	345													
0	1065	1066	1068	1070	1072													
5	1043	994	947	926	892													
10	888	1076	1149	1098	920													
15	768	810	848	904	762													
20	578	539	511	553	481													
25	673	678	685	701	582													
30	774	780	780	805	634													
35	626	636	662	698	542													
40	531	563	563	562	453													
45	620	628	628	642	498													
50	582	604	612	634	495													
55	440	463	476	488	388													
60	361	378	396	415	326													
65	270	289	308	324	255													
70	173	180	180	172	144													
75	121	117	107	97.0	84.0													
80	100	92.3	79.8	71.9	63.7													
85	63.4	52.5	44.6	43.5	42.3													
90	34.9	29.6	27.3	30.2	30.0													
95	28.1	25.6	24.2	27.0	27.7													
100	27.7	26.2	25.4	26.6	27.3													
105	28.5	27.5	26.9	27.5	28.3													
110	28.4	27.4	27.0	27.7	28.5													
115	27.6	26.5	26.2	27.2	27.6													
120	30.4	30.5	30.4	31.0	30.2													
125	32.2	32.7	33.0	33.3	31.5													
130	31.6	31.8	32.5	32.7	30.5													
135	32.4	32.4	32.7	32.8	30.3													
140	30.6	30.7	30.9	30.7	29.4													
145	29.6	29.7	29.8	29.7	29.1													
150	27.9	27.6	27.7	28.0	27.6													
155	25.2	25.3	25.6	26.2	25.9													
160	19.4	19.3	19.1	20.0	20.7													
165	12.5	12.2	9.76	9.29	12.4													
170	3.26	4.00	3.87	2.53	4.40													
175	1.27	1.28	1.28	1.28	1.27													
180	1.15	1.15	1.15	1.15	1.14													

C Range: 0 - 360DEG

C Interval: 15.0DEG

Test Speed: HIGH

Temperature: 24.8DEG

Operators: Alan Wang

Test Date: 03 November 2022

γ Range: 0 - 180DEG

γ Interval: 1.0DEG

Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.416

Humidity: 42.3%

Test Distance: 2.500m [K=1.0460]

Remarks: