



IES INDOOR REPORT

PHOTOMETRIC FILENAME : FPB V2 22 SEL5 UV FR 8SEL5 (20W,3000K).IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] STD231213NB-D

[TESTLAB] Ningbo TengLi Testing Co., Ltd

[TESTDATE] 19 January 2024

[ISSUEDATE] 2024-01-29

[NEARFIELD]

[LAMPPOSITION] 0,0

[OTHER] EVERFINE GO-R5000_V2 SYSTEM

[MANUFAC] LumenFocus, LLC.

[LUMCAT] FPB v2 22 SEL5 UV FR 8SEL5 (20W,3000K)

[LUMINAIRE] 2x2 Luminaires for Ambient Lighting of Interior Commercial Spaces

[OTHER] Input Voltage=120.0 PF=0.9952 THD=9.12

[OTHER] Gamma(deg) Fz(lm) Ft(lm) %Lum %Lamp

[OTHER] 0- 10	156.29	156.29	3.22	3.22
[OTHER] 10- 20	448.67	604.96	12.46	12.46
[OTHER] 20- 30	683.25	1288.21	26.53	26.53
[OTHER] 30- 40	828.88	2117.09	43.60	43.60
[OTHER] 40- 50	865.49	2982.58	61.43	61.43
[OTHER] 50- 60	788.39	3770.98	77.67	77.67
[OTHER] 60- 70	612.13	4383.11	90.28	90.28
[OTHER] 70- 80	364.03	4747.13	97.77	97.77
[OTHER] 80- 90	102.07	4849.20	99.88	99.88
[OTHER] 90-100	0.92	4850.13	99.89	99.89
[OTHER] 100-110	0.48	4850.60	99.90	99.90
[OTHER] 110-120	0.85	4851.45	99.92	99.92
[OTHER] 120-130	0.99	4852.44	99.94	99.94
[OTHER] 130-140	0.94	4853.38	99.96	99.96
[OTHER] 140-150	0.74	4854.12	99.98	99.98
[OTHER] 150-160	0.56	4854.68	99.99	99.99
[OTHER] 160-170	0.42	4855.10	100.00	100.00
[OTHER] 170-180	0.16	4855.26	100.00	100.00
[OTHER]				

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CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2378
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	125
Total Luminaire Watts	19
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.28
Spacing Criterion (90-270)	1.28
Spacing Criterion (Diagonal)	1.40
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.60 m
Luminous Width (90-270)	0.60 m
Luminous Height	0.00 m

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2145	2143	2160
55	2075	2077	2098
65	1973	1982	1998
75	1793	1809	1804
85	1444	1359	1374

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	296.24	N.A.	12.50
0-30	630.81	N.A.	26.50
0-40	1036.7	N.A.	43.60
0-60	1846.57	N.A.	77.70
0-80	2324.58	N.A.	97.80
0-90	2374.56	N.A.	99.90
10-90	2298.03	N.A.	96.70
20-40	740.46	N.A.	31.10
20-50	1164.28	N.A.	49.00
40-70	1109.62	N.A.	46.70
60-80	478.00	N.A.	20.10
70-80	178.26	N.A.	7.50
80-90	49.98	N.A.	2.10
90-110	0.69	N.A.	0.00
90-120	1.10	N.A.	0.00
90-130	1.59	N.A.	0.10
90-150	2.41	N.A.	0.10
90-180	2.96	N.A.	0.10
110-180	2.28	N.A.	0.10
0-180	2377.52	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	76.53
10-20	219.70
20-30	334.57
30-40	405.89
40-50	423.81
50-60	386.06
60-70	299.75
70-80	178.26
80-90	49.98
90-100	0.45
100-110	0.23
110-120	0.41
120-130	0.49
130-140	0.46
140-150	0.36
150-160	0.27
160-170	0.21
170-180	0.08

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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69
3	90	79	70	64	87	77	69	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	45	39	50	44	39	37
7	64	51	42	36	63	50	41	35	48	41	35	47	40	35	45	39	35	33
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	38	30	26	37	30	25	36	30	25	24

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UGR TABLE - CORRECTED

Reflectances

Ceiling Cavity	70	70	50	50	30	70	70	50	50	30
Walls	50	30	50	30	30	50	30	50	30	30
Floor Cavity	20	20	20	20	20	20	20	20	20	20

Room Size UGR Viewed Crosswise

X=2H	Y=2H	14.7	16.3	15.1	16.7	17.0	14.7	16.4	15.1	16.7	17.0
	3H	16.6	18.1	16.9	18.4	18.8	16.6	18.1	17.0	18.4	18.8
	4H	17.3	18.7	17.7	19.1	19.4	17.3	18.8	17.7	19.1	19.5
	6H	17.9	19.2	18.3	19.5	19.9	17.9	19.2	18.3	19.6	19.9
	8H	18.0	19.3	18.5	19.7	20.1	18.0	19.3	18.5	19.7	20.1
	12H	18.2	19.4	18.6	19.7	20.2	18.2	19.4	18.6	19.8	20.2

UGR Viewed Endwise

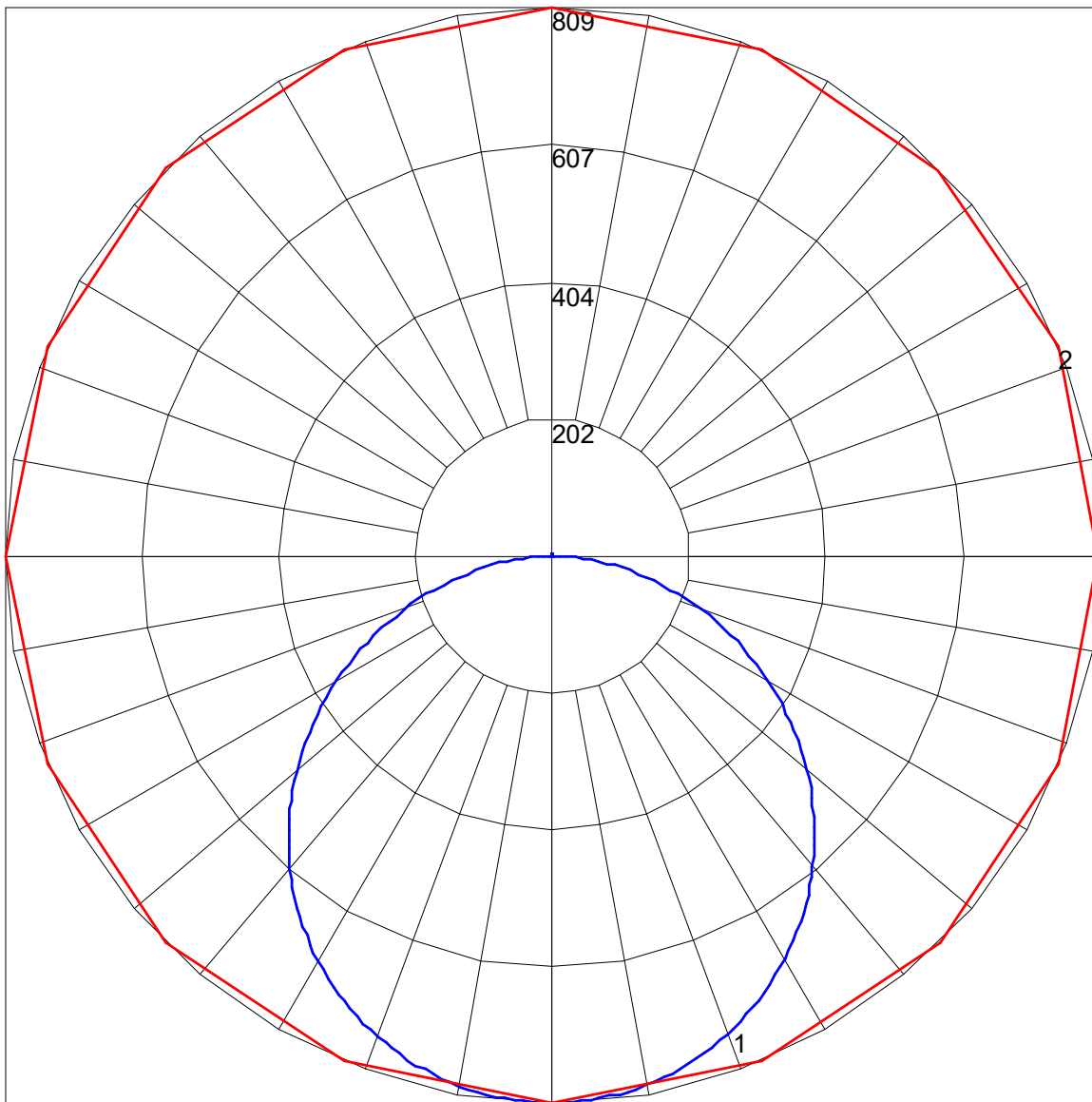
4H	2H	15.3	16.8	15.7	17.1	17.5	15.4	16.8	15.8	17.1	17.5
	3H	17.5	18.7	17.9	19.1	19.5	17.5	18.7	17.9	19.1	19.5
	4H	18.3	19.4	18.8	19.8	20.3	18.4	19.4	18.8	19.8	20.3
	6H	19.0	20.0	19.5	20.4	20.9	19.0	20.0	19.5	20.4	20.9
	8H	19.3	20.1	19.7	20.6	21.1	19.2	20.1	19.7	20.6	21.0
	12H	19.4	20.2	19.9	20.7	21.2	19.4	20.2	19.9	20.7	21.2

8H	4H	18.7	19.6	19.1	20.0	20.5	18.7	19.6	19.1	20.0	20.5
	6H	19.5	20.2	20.0	20.7	21.2	19.5	20.2	20.0	20.7	21.2
	8H	19.8	20.5	20.3	21.0	21.5	19.8	20.4	20.3	21.0	21.4
	12H	20.1	20.7	20.6	21.2	21.7	20.0	20.6	20.5	21.1	21.7

12H	4H	18.7	19.5	19.2	20.0	20.5	18.7	19.5	19.2	20.0	20.5
	6H	19.6	20.3	20.1	20.7	21.3	19.6	20.2	20.1	20.7	21.2
	8H	20.0	20.5	20.5	21.0	21.6	19.9	20.5	20.4	21.0	21.5

Maximum UGR = 21.7

POLAR GRAPH



Maximum Candela = 808.771 Located At Horizontal Angle = 22.5, Vertical Angle = 1
1 - Vertical Plane Through Horizontal Angles (22.5 - 202.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (1) (Through Max. Cd.)