

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : FPB 14 SEL(20W) UV FR 8SEL(3500K).IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] Nick

[TESTLAB] Ningbo TengLi Testing Co., Ltd

[TESTDATE] 14 October 2019

[ISSUEDATE] 2019-10-14 10:59:43

[NEARFIELD]

[LAMPPOSITION] 0,0

[OTHER] EVERFINE GO-R5000\_V2 SYSTEM

[MANUFAC] LumenFocus, LLC.

[LUMINAIRE] FPB 14 SEL(20W) UV FR 8SEL(3500K)

[OTHER]

[OTHER]	Gamma(deg)	Fz(lm)	Ft(lm)	%Lum	%Lamp
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[OTHER]	0- 10	116.10	116.10	3.21	3.21
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[OTHER]	10- 20	333.86	449.95	12.45	12.45
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[OTHER]	20- 30	509.57	959.53	26.54	26.54
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[OTHER]	30- 40	619.93	1579.46	43.69	43.69
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[OTHER]	40- 50	648.99	2228.44	61.65	61.65
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[OTHER]	50- 60	591.00	2819.44	78.00	78.00
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[OTHER]	60- 70	453.29	3272.73	90.54	90.54
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[OTHER]	70- 80	263.11	3535.84	97.81	97.81
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[OTHER]	80- 90	74.65	3610.49	99.88	99.88
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[OTHER]	90-100	0.70	3611.20	99.90	99.90
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[OTHER]	100-110	0.50	3611.70	99.91	99.91
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[OTHER]	110-120	0.58	3612.28	99.93	99.93
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[OTHER]	120-130	0.55	3612.83	99.94	99.94
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[OTHER]	130-140	0.58	3613.40	99.96	99.96
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[OTHER]	140-150	0.54	3613.95	99.97	99.97
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[OTHER]	150-160	0.46	3614.41	99.99	99.99
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[OTHER]	160-170	0.33	3614.74	100.00	100.00
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[OTHER]	170-180	0.13	3614.87	100.00	100.00
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[OTHER]

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**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2494
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	125
Total Luminaire Watts	20
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.28
Spacing Criterion (90-270)	1.28
Spacing Criterion (Diagonal)	1.42
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.95 ft
Luminous Width (90-270)	0.95 ft
Luminous Height	0.00 ft

**LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2313	2367	2348
55	2228	2292	2280
65	2082	2147	2149
75	1823	1896	1905
85	1319	1479	1575

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	310.42	N.A.	12.40
0-30	661.98	N.A.	26.50
0-40	1089.67	N.A.	43.70
0-60	1945.14	N.A.	78.00
0-80	2439.39	N.A.	97.80
0-90	2490.89	N.A.	99.90
10-90	2410.79	N.A.	96.70
20-40	779.25	N.A.	31.20
20-50	1226.98	N.A.	49.20
40-70	1168.19	N.A.	46.80
60-80	494.25	N.A.	19.80
70-80	181.52	N.A.	7.30
80-90	51.50	N.A.	2.10
90-110	0.83	N.A.	0.00
90-120	1.23	N.A.	0.00
90-130	1.61	N.A.	0.10
90-150	2.38	N.A.	0.10
90-180	3.02	N.A.	0.10
110-180	2.19	N.A.	0.10
0-180	2493.91	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	80.10
10-20	230.33
20-30	351.56
30-40	427.69
40-50	447.74
50-60	407.73
60-70	312.73
70-80	181.52
80-90	51.50
90-100	0.48
100-110	0.34
110-120	0.40
120-130	0.38
130-140	0.40
140-150	0.37
150-160	0.32
160-170	0.23
170-180	0.09

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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	85	79	75	81	77	73	78	74	71	69
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42
6	69	56	47	40	68	55	46	40	53	46	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	46	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	29	55	42	34	28	41	33	28	40	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**

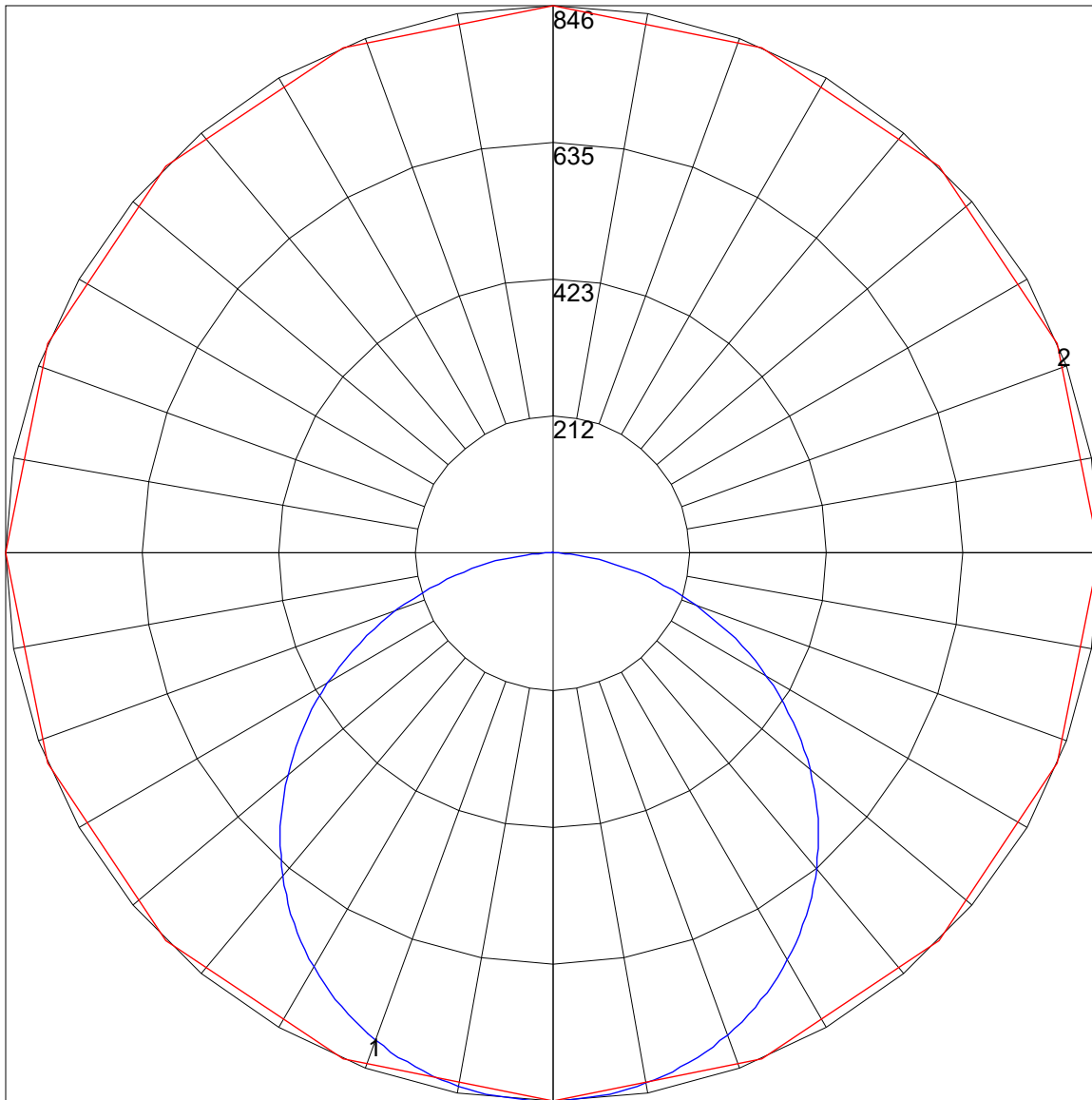
Reflectances

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					UGR Viewed Endwise				
X=2H	Y=2H	14.9	16.6	15.3	16.9	17.2	15.1	16.8	15.5	17.1	17.4
	3H	16.7	18.2	17.1	18.6	18.9	16.9	18.4	17.3	18.8	19.1
	4H	17.4	18.8	17.8	19.2	19.5	17.6	19.1	18.0	19.4	19.8
	6H	17.9	19.2	18.3	19.6	20.0	18.2	19.5	18.6	19.8	20.2
	8H	18.0	19.3	18.5	19.7	20.1	18.3	19.6	18.7	20.0	20.4
	12H	18.1	19.3	18.6	19.7	20.2	18.4	19.7	18.9	20.0	20.5
4H	2H	15.6	17.0	16.0	17.4	17.7	15.8	17.2	16.2	17.5	17.9
	3H	17.6	18.8	18.0	19.2	19.6	17.9	19.0	18.3	19.4	19.8
	4H	18.4	19.5	18.8	19.9	20.3	18.7	19.7	19.1	20.2	20.6
	6H	19.0	20.0	19.5	20.4	20.9	19.3	20.3	19.8	20.7	21.2
	8H	19.2	20.1	19.7	20.6	21.0	19.5	20.4	20.0	20.9	21.3
	12H	19.4	20.2	19.9	20.6	21.1	19.7	20.5	20.2	21.0	21.4
8H	4H	18.7	19.6	19.2	20.1	20.5	19.0	19.9	19.5	20.3	20.8
	6H	19.5	20.2	20.0	20.7	21.2	19.8	20.5	20.3	21.0	21.5
	8H	19.7	20.4	20.2	20.9	21.4	20.1	20.7	20.6	21.3	21.7
	12H	20.0	20.5	20.5	21.0	21.6	20.3	20.9	20.8	21.4	22.0
12H	4H	18.8	19.6	19.3	20.0	20.5	19.1	19.8	19.5	20.3	20.8
	6H	19.5	20.2	20.1	20.7	21.2	19.9	20.5	20.4	21.0	21.5
	8H	19.9	20.4	20.4	20.9	21.5	20.2	20.8	20.7	21.3	21.9

Maximum UGR = 22.0

POLAR GRAPH



Maximum Candela = 846.152 Located At Horizontal Angle = 135, Vertical Angle = 1  
# 1 - Vertical Plane Through Horizontal Angles (135 - 315) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (1) (Through Max. Cd.)