IES INDOOR REPORT
PHOTOMETRIC FILENAME : PBL V2 4W LW UV FR 850.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LLIA001687-022
[TESTLAB] LightLab International Allentown, LLC
[ISSUEDATE] 4/20/2022
[MANUFAC] Lumen Focus, LLC
[LUMCAT] PBL V2 4W LW UV FR 850
[LUMINAIRE] High Bay mounted, formed white painted aluminum housing/reflector,
[MORE] three curved translucent plastic enclosures.
[LAMP] 504 white LEDs, six ULT M900C85084N2Q LED boards
[BALLAST] Two ULT D28CC95UVPA12-F LED drivers labeled at 2220mA
[OTHER] 120.0Vac, 60.00Hz
[OTHER] This test was performed using the absolute method of photometry.
[MORE] Lamp lumens value was set to -1

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	29969
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	157
Total Luminaire Watts	190.8
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.24
Spacing Criterion (90-270)	1.28
Spacing Criterion (Diagonal)	1.38
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	3.80 ft
Luminous Width (90-270)	1.26 ft
Luminous Height	0.04 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	20483	21568	22490
55	17897	20452	21939
65	14605	19190	21302
75	10943	17787	15276
85	6841	10399	9900

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	3864.92	N.A.	12.90
0-30	8208.21	N.A.	27.40
0-40	13430.52	N.A.	44.80
0-60	23591.77	N.A.	78.70
0-80	29334.4	N.A.	97.90
0-90	29940.52	N.A.	99.90
10-90	28940.5	N.A.	96.60
20-40	9565.6	N.A.	31.90
20-50	14936.08	N.A.	49.80
40-70	13826.69	N.A.	46.10
60-80	5742.63	N.A.	19.20
70-80	2077.19	N.A.	6.90
80-90	606.12	N.A.	2.00
90-110	28.45	N.A.	0.10
90-120	28.45	N.A.	0.10
90-130	28.45	N.A.	0.10
90-150	28.45	N.A.	0.10
90-180	28.45	N.A.	0.10
110-180	0.00	N.A.	0.00
0-180	29968.97	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1000.02
10-20	2864.9
20-30	4343.29
30-40	5222.31
40-50	5370.48
50-60	4790.77
60-70	3665.44
70-80	2077.19
80-90	606.12
90-100	28.37
100-110	0.08
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

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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	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	83
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	69
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61	58
4	82	70	61	55	80	69	61	54	66	59	54	64	58	53	62	57	52	50
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45	43
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	50	44	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	29	27
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	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	21.6	23.3	22.0	23.6	23.9	23.2	24.8	23.6	25.2	25.5
	3H	23.1	24.6	23.5	24.9	25.3	25.2	26.7	25.6	27.1	27.4
	4H	23.6	25.0	24.0	25.3	25.7	25.8	27.2	26.2	27.6	28.0
	6H	23.9	25.2	24.3	25.6	26.0	26.1	27.4	26.6	27.8	28.2
	8H	24.0	25.2	24.4	25.6	26.0	26.2	27.5	26.6	27.8	28.2
	12H	24.1	25.2	24.5	25.6	26.1	26.3	27.5	26.7	27.9	28.3
4H	2H	22.6	24.0	23.0	24.3	24.7	23.7	25.1	24.1	25.5	25.9
	3H	24.3	25.5	24.7	25.9	26.2	26.0	27.2	26.5	27.6	28.0
	4H	24.9	26.0	25.3	26.4	26.8	26.8	27.8	27.2	28.2	28.7
	6H	25.3	26.3	25.8	26.7	27.2	27.2	28.1	27.6	28.5	29.0
	8H	25.5	26.3	25.9	26.8	27.3	27.3	28.1	27.7	28.6	29.0
	12H	25.6	26.3	26.0	26.8	27.3	27.4	28.2	27.9	28.6	29.1
8H	4H	25.4	26.3	25.9	26.7	27.2	27.0	27.9	27.5	28.3	28.8
	6H	26.0	26.8	26.5	27.3	27.7	27.5	28.3	28.0	28.7	29.2
	8H	26.2	26.9	26.7	27.4	27.9	27.7	28.3	28.2	28.9	29.3
	12H	26.4	27.0	26.9	27.5	28.0	27.9	28.4	28.4	28.9	29.5
12H	4H	25.5	26.3	26.0	26.7	27.2	27.0	27.8	27.5	28.3	28.8
	6H	26.1	26.8	26.6	27.2	27.8	27.6	28.2	28.1	28.7	29.2
	8H	26.4	27.0	26.9	27.5	28.0	27.8	28.4	28.3	28.9	29.4

Maximum UGR = 29.5

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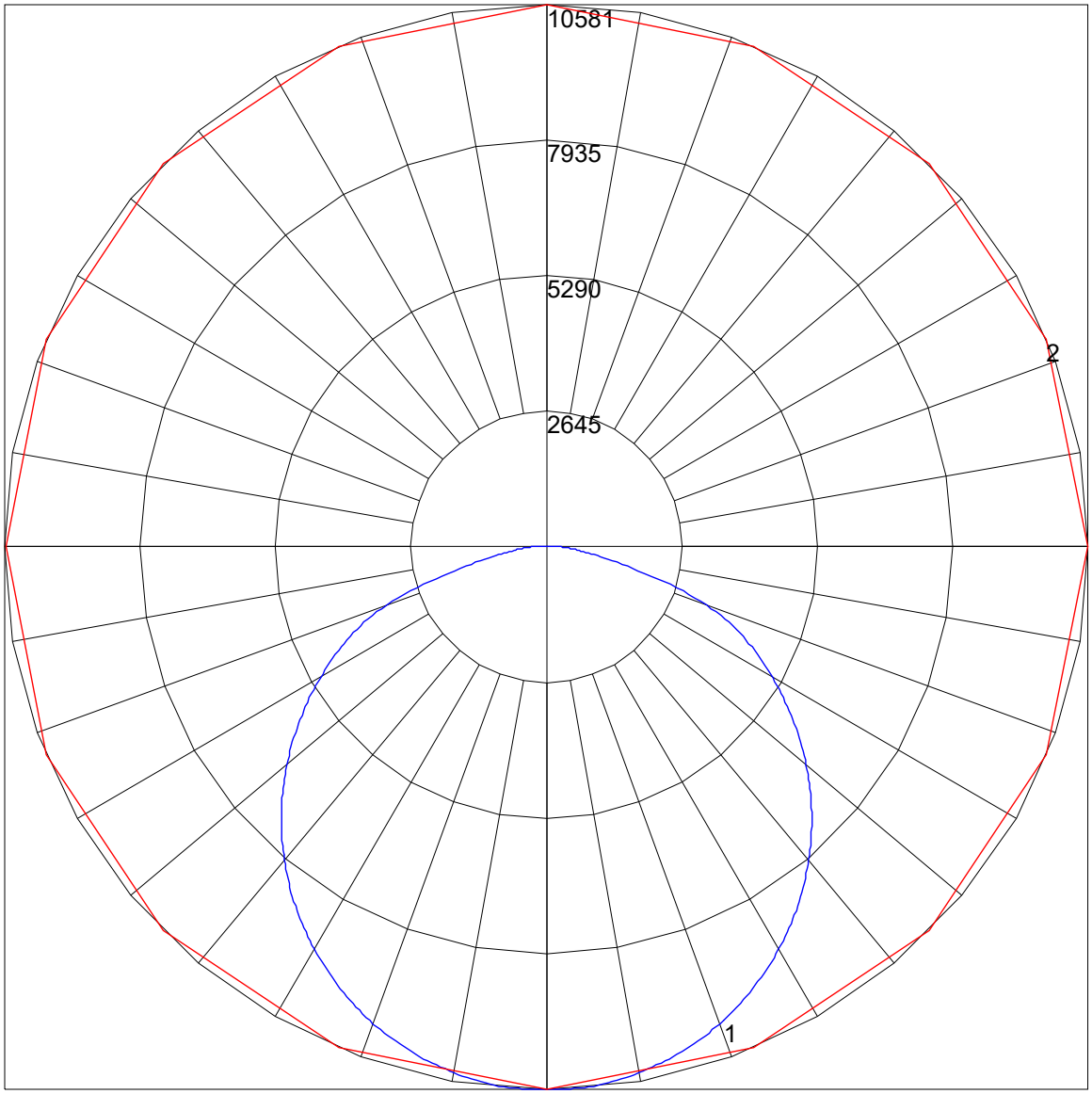
POLAR GRAPH



Maximum Candela = 10580.602 Located At Horizontal Angle = 90, Vertical Angle = 1.5
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (1.5) (Through Max. Cd.)

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