IES INDOOR REPORT
PHOTOMETRIC FILENAME : PBL V2 4W VH 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 VH UV FR 850
[LUMINAIRE] High Bay mounted, formed white painted aluminum housing/reflector,
[MORE] four curved translucent plastic enclosures.
[LAMP] 672 white LEDs, eight ULT M900C85084N2Q LED boards
[BALLAST] Four ULT D21CC80UNVPW-C LED drivers labeled at 1880mA
[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	49995
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	149
Total Luminaire Watts	334.9
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	34170	35980	37518
55	29856	34118	36600
65	24364	32013	35536
75	18255	29673	25483
85	11412	17348	16515

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	6447.55	N.A.	12.90
0-30	13693.12	N.A.	27.40
0-40	22405.09	N.A.	44.80
0-60	39356.33	N.A.	78.70
0-80	48936.31	N.A.	97.90
0-90	49947.46	N.A.	99.90
10-90	48279.21	N.A.	96.60
20-40	15957.55	N.A.	31.90
20-50	24916.71	N.A.	49.80
40-70	23066.00	N.A.	46.10
60-80	9579.98	N.A.	19.20
70-80	3465.22	N.A.	6.90
80-90	1011.14	N.A.	2.00
90-110	47.47	N.A.	0.10
90-120	47.47	N.A.	0.10
90-130	47.47	N.A.	0.10
90-150	47.47	N.A.	0.10
90-180	47.47	N.A.	0.10
110-180	0.00	N.A.	0.00
0-180	49994.92	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1668.25
10-20	4779.3
20-30	7245.57
30-40	8711.97
40-50	8959.16
50-60	7992.07
60-70	6114.77
70-80	3465.22
80-90	1011.14
90-100	47.33
100-110	0.14
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	23.4	25.1	23.8	25.4	25.7	25.0	26.6	25.4	27.0	27.3
	3H	24.9	26.4	25.3	26.7	27.1	27.0	28.5	27.4	28.9	29.2
	4H	25.4	26.8	25.8	27.1	27.5	27.6	29.0	28.0	29.4	29.8
	6H	25.7	27.0	26.1	27.4	27.8	27.9	29.2	28.4	29.6	30.0
	8H	25.8	27.0	26.2	27.4	27.8	28.0	29.3	28.4	29.6	30.0
	12H	25.9	27.0	26.3	27.4	27.9	28.1	29.3	28.5	29.7	30.1
4H	2H	24.4	25.8	24.8	26.1	26.5	25.5	26.9	25.9	27.3	27.7
	3H	26.1	27.3	26.5	27.7	28.0	27.8	29.0	28.3	29.4	29.8
	4H	26.7	27.8	27.1	28.2	28.6	28.6	29.6	29.0	30.0	30.5
	6H	27.1	28.1	27.6	28.5	29.0	29.0	29.9	29.4	30.3	30.8
	8H	27.3	28.1	27.7	28.6	29.1	29.1	29.9	29.5	30.4	30.8
	12H	27.4	28.1	27.8	28.6	29.1	29.2	30.0	29.7	30.4	30.9
8H	4H	27.2	28.1	27.7	28.5	29.0	28.8	29.7	29.3	30.1	30.6
	6H	27.8	28.6	28.3	29.1	29.5	29.3	30.1	29.8	30.5	31.0
	8H	28.0	28.7	28.5	29.2	29.7	29.5	30.1	30.0	30.7	31.1
	12H	28.2	28.8	28.7	29.3	29.8	29.7	30.2	30.2	30.7	31.3
12H	4H	27.3	28.1	27.8	28.5	29.0	28.8	29.6	29.3	30.1	30.6
	6H	27.9	28.6	28.4	29.0	29.6	29.4	30.0	29.9	30.5	31.0
	8H	28.2	28.8	28.7	29.3	29.8	29.6	30.2	30.1	30.7	31.2

Maximum UGR = 31.3

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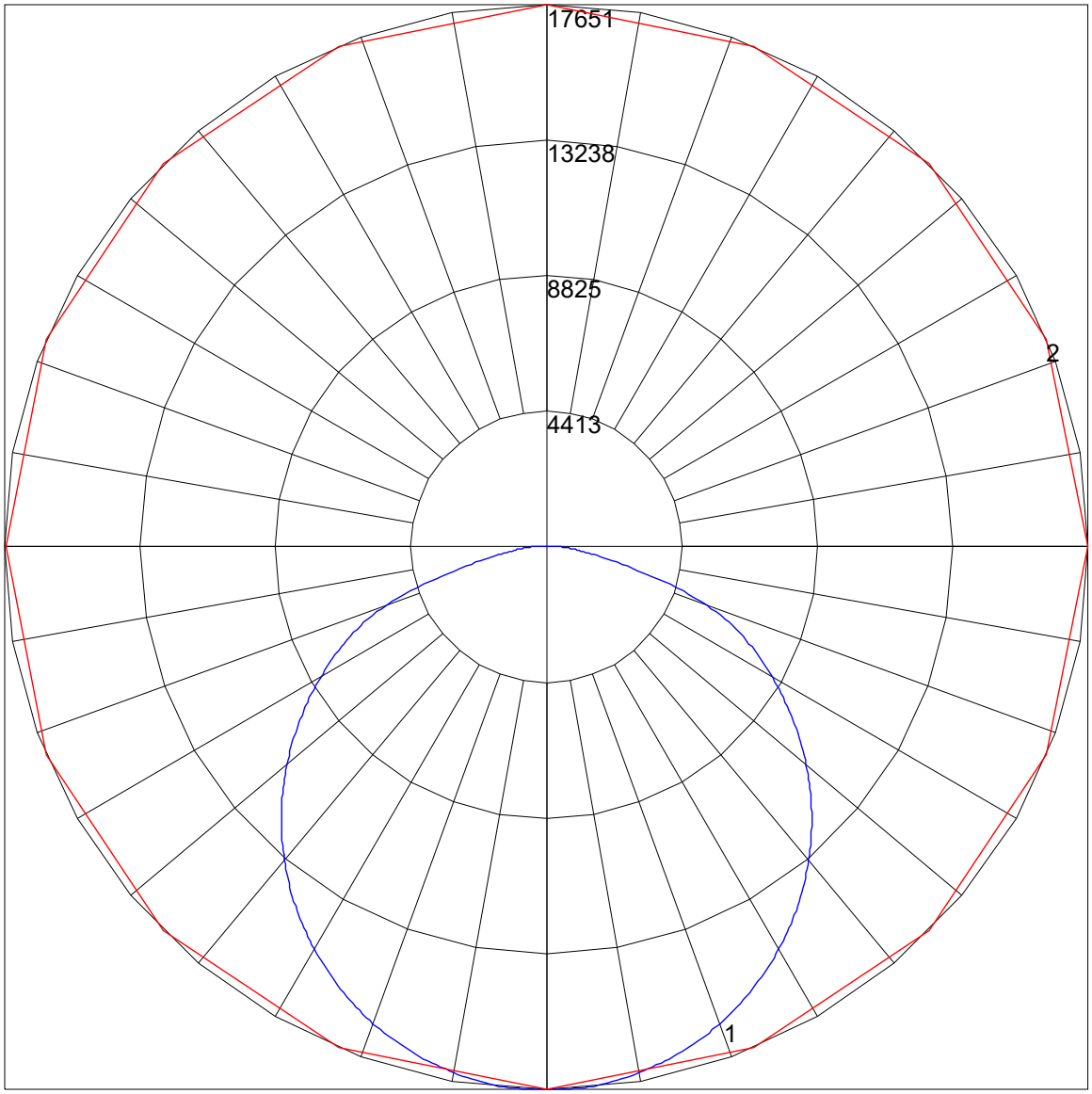
POLAR GRAPH



Maximum Candela = 17650.802 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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