IES INDOOR REPORT
PHOTOMETRIC FILENAME : PBL V2 4W MD UV 840.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LLIA001687-021
[TESTLAB] LightLab International Allentown, LLC
[ISSUEDATE] 4/20/2022
[MANUFAC] Lumen Focus, LLC
[LUMCAT] PBL V2 4W MD UV 840
[LUMINAIRE] High Bay mounted, formed white painted aluminum housing/reflector,
[MORE] no enclosure.
[LAMP] 504 white LEDs, six ULT M900C84084N2Q LED boards
[BALLAST] Three ULT D21CC80UNVPW-D LED drivers labeled at 1680mA
[OTHER] 120.1Vac, 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	35841
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	161
Total Luminaire Watts	222.2
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.30
Spacing Criterion (90-270)	1.28
Spacing Criterion (Diagonal)	1.40
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.80 ft
Luminous Width (90-270)	1.26 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	27539	27027	27174
55	27019	26432	26785
65	25540	25091	25791
75	21301	23040	8941
85	10939	6964	7544

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	4477.79	N.A.	12.50
0-30	9567.46	N.A.	26.70
0-40	15802.54	N.A.	44.10
0-60	28454.2	N.A.	79.40
0-80	35434.27	N.A.	98.90
0-90	35837.25	N.A.	100.00
10-90	34681.67	N.A.	96.80
20-40	11324.75	N.A.	31.60
20-50	17911.96	N.A.	50.00
40-70	17350.45	N.A.	48.40
60-80	6980.06	N.A.	19.50
70-80	2281.28	N.A.	6.40
80-90	402.98	N.A.	1.10
90-110	4.00	N.A.	0.00
90-120	4.00	N.A.	0.00
90-130	4.00	N.A.	0.00
90-150	4.00	N.A.	0.00
90-180	4.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	35841.25	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1155.58
10-20	3322.21
20-30	5089.67
30-40	6235.08
40-50	6587.21
50-60	6064.46
60-70	4698.78
70-80	2281.28
80-90	402.98
90-100	3.91
100-110	0.09
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	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	78	96	89	83	77	85	80	76	82	78	74	79	75	72	70
3	90	80	71	65	88	78	70	64	75	68	63	72	67	62	70	65	61	59
4	82	70	62	55	80	69	61	54	66	59	54	64	58	53	62	57	52	50
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33
8	60	46	38	32	59	46	38	32	44	37	32	43	36	32	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	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	23.6	25.3	24.0	25.6	25.9	23.8	25.4	24.1	25.7	26.1
	3H	25.5	27.0	25.9	27.3	27.7	25.7	27.2	26.1	27.6	27.9
	4H	26.1	27.5	26.5	27.9	28.3	25.8	27.3	26.2	27.6	28.0
	6H	26.6	27.9	27.0	28.2	28.6	25.9	27.2	26.3	27.6	28.0
	8H	26.7	27.9	27.1	28.3	28.7	25.9	27.2	26.3	27.5	27.9
	12H	26.7	27.9	27.1	28.3	28.7	25.9	27.1	26.4	27.5	27.9
4H	2H	24.3	25.7	24.7	26.0	26.4	24.4	25.8	24.8	26.2	26.5
	3H	26.4	27.5	26.8	27.9	28.3	26.6	27.8	27.0	28.2	28.6
	4H	27.1	28.2	27.6	28.6	29.0	26.7	27.8	27.2	28.2	28.6
	6H	27.7	28.6	28.1	29.0	29.5	26.8	27.8	27.3	28.2	28.7
	8H	27.8	28.7	28.3	29.1	29.6	26.9	27.7	27.3	28.2	28.6
	12H	27.9	28.7	28.4	29.1	29.6	26.9	27.7	27.4	28.1	28.6
8H	4H	27.4	28.3	27.9	28.7	29.2	27.0	27.9	27.5	28.3	28.8
	6H	28.0	28.7	28.5	29.2	29.7	27.2	27.9	27.6	28.3	28.8
	8H	28.2	28.9	28.7	29.4	29.8	27.2	27.8	27.7	28.3	28.8
	12H	28.3	28.9	28.8	29.3	29.9	27.2	27.8	27.7	28.3	28.8
12H	4H	27.4	28.2	27.9	28.6	29.1	27.0	27.8	27.5	28.3	28.8
	6H	28.0	28.6	28.5	29.1	29.6	27.2	27.8	27.7	28.3	28.8
	8H	28.2	28.8	28.7	29.3	29.8	27.2	27.8	27.7	28.3	28.8

Maximum UGR = 29.9

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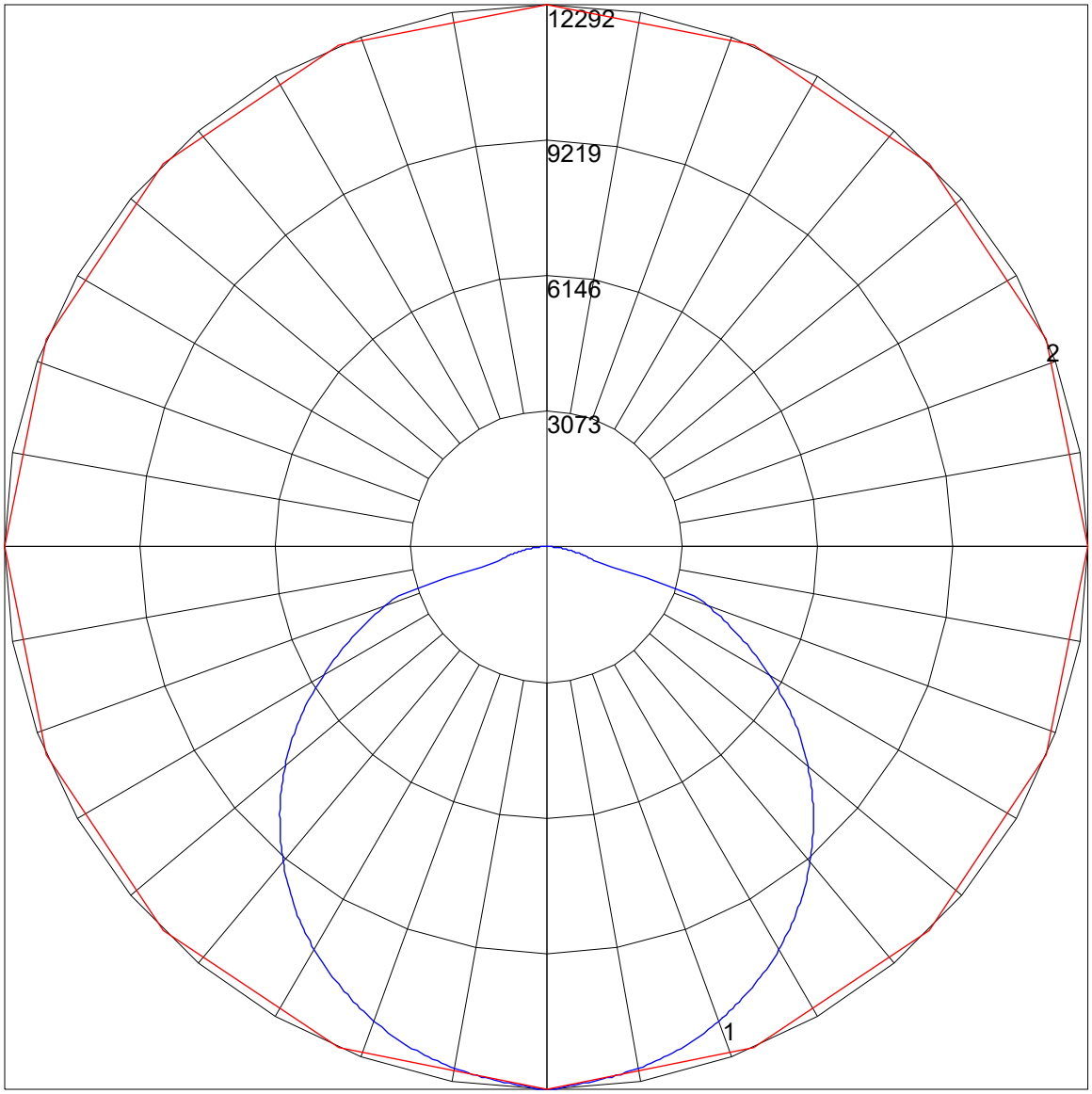
POLAR GRAPH



Maximum Candela = 12292.005 Located At Horizontal Angle = 90, Vertical Angle = .5
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (.5) (Through Max. Cd.)

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