IES INDOOR REPORT
PHOTOMETRIC FILENAME : PBL V2 4W MD UV FR 835.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 MD UV FR 835
[LUMINAIRE] High Bay mounted, formed white painted aluminum housing/reflector,
[MORE] three curved translucent plastic enclosures.
[LAMP] 504 white LEDs, six ULT M900C835D84N2Q LED boards
[BALLAST] Three ULT D21CC80UNVPW-C LED drivers labeled at 1680mA
[OTHER] 120.0Vac, 60.00Hz, 1.857A, 222.2W, 0.997PF, 5.9%THD(i)
[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	33763
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	152
Total Luminaire Watts	222.15
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	23076	24298	25337
55	20162	23041	24717
65	16454	21619	23998
75	12328	20039	17209
85	7707	11715	11153

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	4354.18	N.A.	12.90
0-30	9247.29	N.A.	27.40
0-40	15130.68	N.A.	44.80
0-60	26578.25	N.A.	78.70
0-80	33047.84	N.A.	97.90
0-90	33730.69	N.A.	99.90
10-90	32604.08	N.A.	96.60
20-40	10776.5	N.A.	31.90
20-50	16826.84	N.A.	49.80
40-70	15577.01	N.A.	46.10
60-80	6469.59	N.A.	19.20
70-80	2340.14	N.A.	6.90
80-90	682.85	N.A.	2.00
90-110	32.06	N.A.	0.10
90-120	32.06	N.A.	0.10
90-130	32.06	N.A.	0.10
90-150	32.06	N.A.	0.10
90-180	32.06	N.A.	0.10
110-180	0.00	N.A.	0.00
0-180	33762.74	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1126.61
10-20	3227.57
20-30	4893.11
30-40	5883.4
40-50	6050.33
50-60	5397.23
60-70	4129.44
70-80	2340.14
80-90	682.85
90-100	31.96
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	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	22.0	23.7	22.4	24.0	24.3	23.6	25.2	24.0	25.6	25.9
	3H	23.5	25.0	23.9	25.3	25.7	25.6	27.1	26.0	27.5	27.8
	4H	24.0	25.4	24.4	25.7	26.1	26.2	27.6	26.6	28.0	28.4
	6H	24.3	25.6	24.7	26.0	26.4	26.5	27.8	27.0	28.2	28.6
	8H	24.4	25.6	24.8	26.0	26.4	26.6	27.9	27.0	28.2	28.6
	12H	24.5	25.6	24.9	26.0	26.5	26.7	27.9	27.1	28.3	28.7
4H	2H	23.0	24.4	23.4	24.7	25.1	24.1	25.5	24.5	25.9	26.3
	3H	24.7	25.9	25.1	26.3	26.6	26.4	27.6	26.9	28.0	28.4
	4H	25.3	26.4	25.7	26.8	27.2	27.2	28.2	27.6	28.6	29.1
	6H	25.7	26.7	26.2	27.1	27.6	27.6	28.5	28.0	28.9	29.4
	8H	25.9	26.7	26.3	27.2	27.7	27.7	28.5	28.1	29.0	29.4
	12H	26.0	26.7	26.4	27.2	27.7	27.8	28.6	28.3	29.0	29.5
8H	4H	25.8	26.7	26.3	27.1	27.6	27.4	28.3	27.9	28.7	29.2
	6H	26.4	27.2	26.9	27.7	28.1	27.9	28.7	28.4	29.1	29.6
	8H	26.6	27.3	27.1	27.8	28.3	28.1	28.7	28.6	29.3	29.7
	12H	26.8	27.4	27.3	27.9	28.4	28.3	28.8	28.8	29.3	29.9
12H	4H	25.9	26.7	26.4	27.1	27.6	27.4	28.2	27.9	28.7	29.2
	6H	26.5	27.2	27.0	27.6	28.2	28.0	28.6	28.5	29.1	29.6
	8H	26.8	27.4	27.3	27.9	28.4	28.2	28.8	28.7	29.3	29.8

Maximum UGR = 29.9

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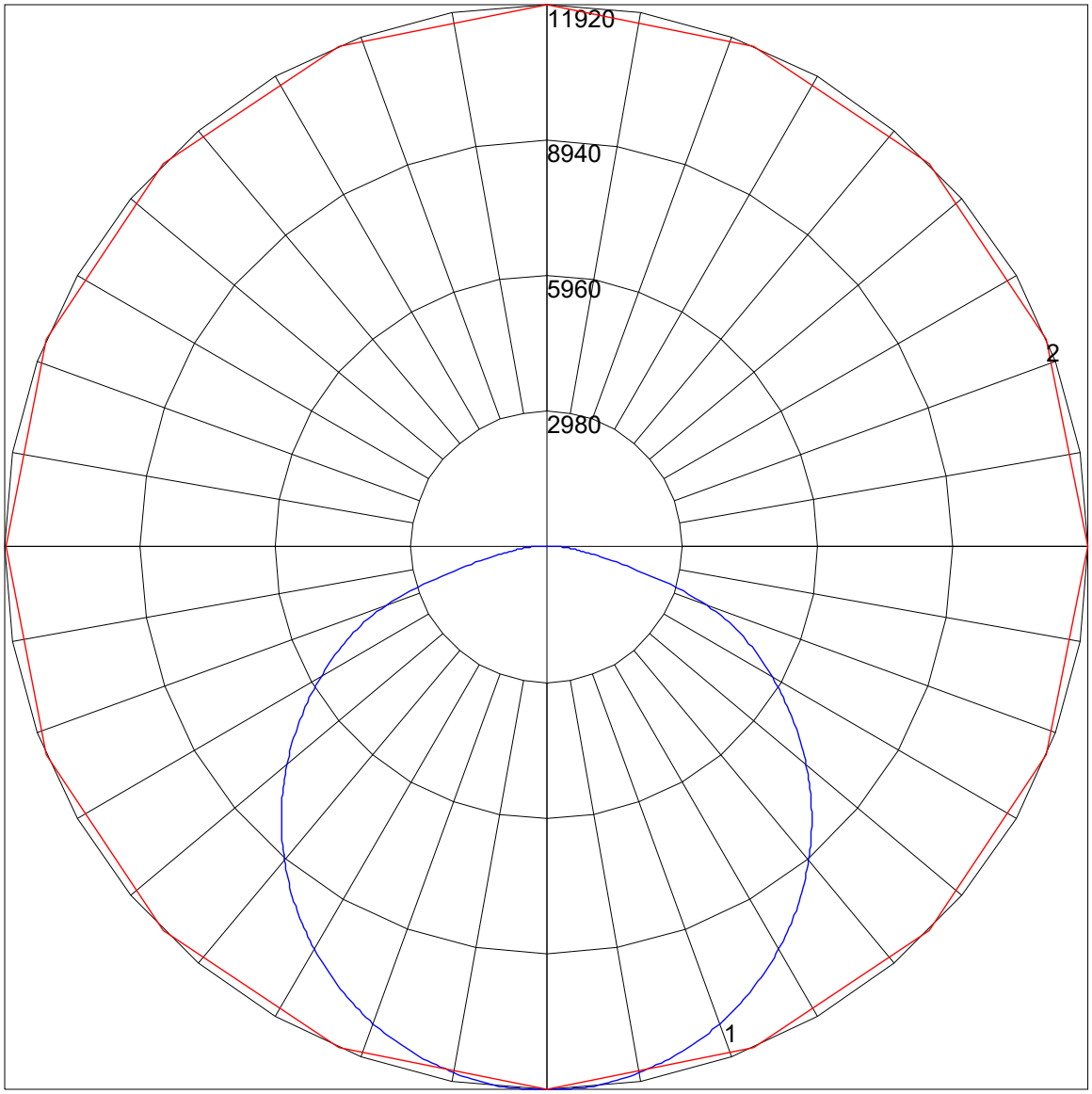
POLAR GRAPH



Maximum Candela = 11920 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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