



IES INDOOR REPORT

PHOTOMETRIC FILENAME : PBL V2 4W LW UV 835.IES

DESCRIPTION INFORMATION (From Photometric File)

[IESNA] LM-63-2002

[TEST] LLIA001687-021

[TESTLAB] LightLab International Allentown, LLC

[ISSUE DATE] 4/20/2022

[MANUFAC] Lumen Focus, LLC

[LUMCAT] PBL V2 4W LW UV 835

[LUMINAIRE] High Bay mounted, formed white painted aluminum housing/reflector,

[MORE] no enclosure.

[LAMP] 504 white LEDs, six ULT M900C835D84N2Q LED boards

[BALLAST] Two ULT D28CC95UVPA12-F LED drivers labeled at 2220mA

[OTHER] 120.1Vac, 60.00Hz, 1.592A, 190.8W, 0.998PF, 2.7%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	31814
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	167
Total Luminaire Watts	190.83
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	24445	23991	24121
55	23983	23463	23776
65	22670	22272	22893
75	18908	20452	7936
85	9710	6182	6697

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	3974.71	N.A.	12.50
0-30	8492.55	N.A.	26.70
0-40	14027.13	N.A.	44.10
0-60	25257.38	N.A.	79.40
0-80	31453.23	N.A.	98.90
0-90	31810.94	N.A.	100.00
10-90	30785.19	N.A.	96.80
20-40	10052.42	N.A.	31.60
20-50	15899.55	N.A.	50.00
40-70	15401.13	N.A.	48.40
60-80	6195.85	N.A.	19.50
70-80	2024.98	N.A.	6.40
80-90	357.71	N.A.	1.10
90-110	3.55	N.A.	0.00
90-120	3.55	N.A.	0.00
90-130	3.55	N.A.	0.00
90-150	3.55	N.A.	0.00
90-180	3.55	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	31814.49	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1025.75
10-20	2948.96
20-30	4517.84
30-40	5534.57
40-50	5847.14
50-60	5383.12
60-70	4170.88
70-80	2024.98
80-90	357.71
90-100	3.47
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	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

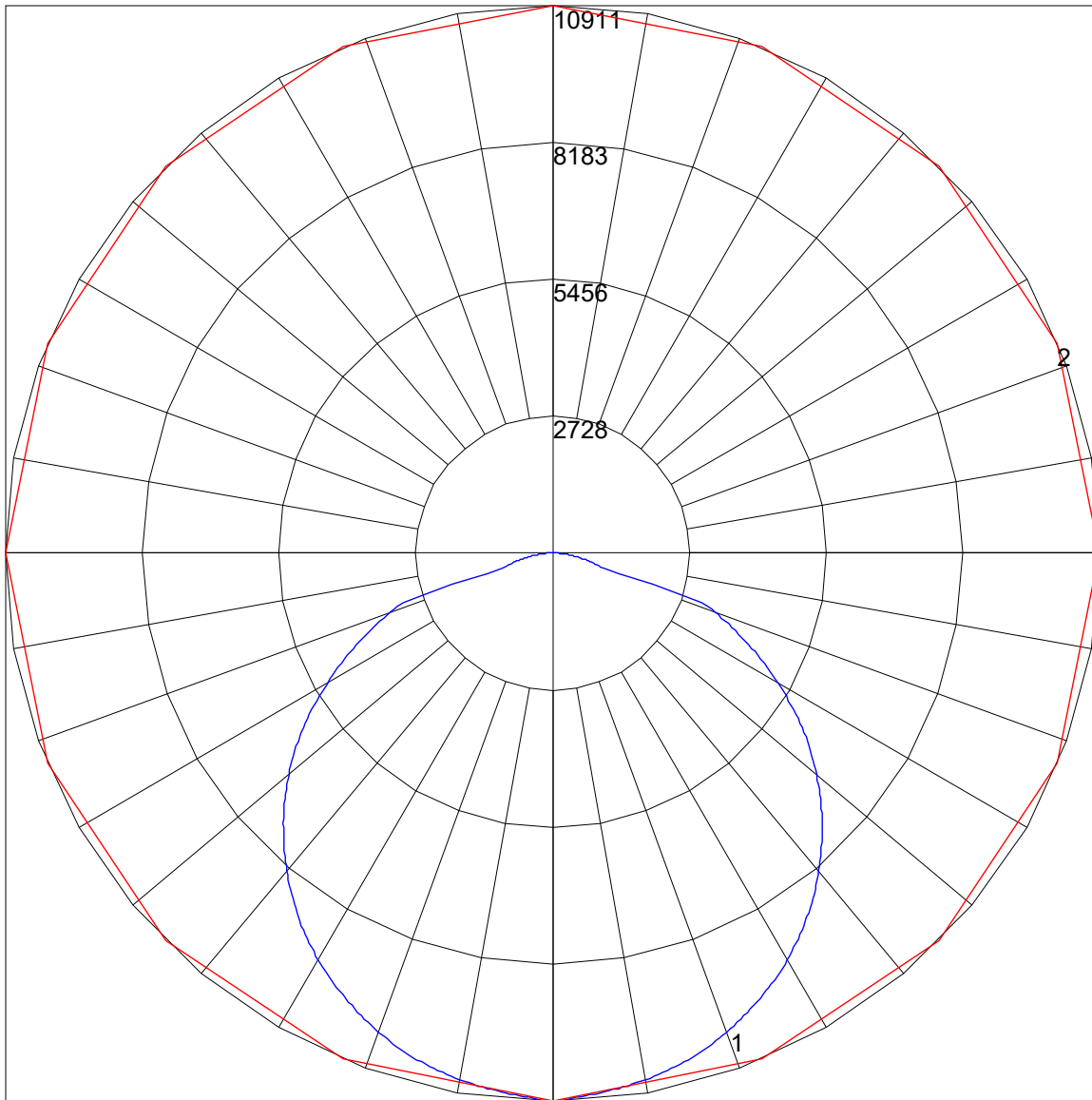
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UGR TABLE - CORRECTED

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	23.2	24.9	23.6	25.2	25.5	23.4	25.0	23.7	25.3	25.7
	3H	25.1	26.6	25.5	26.9	27.3	25.3	26.8	25.7	27.2	27.5
	4H	25.7	27.1	26.1	27.5	27.9	25.4	26.9	25.8	27.2	27.6
	6H	26.2	27.5	26.6	27.8	28.2	25.5	26.8	25.9	27.2	27.6
	8H	26.3	27.5	26.7	27.9	28.3	25.5	26.8	25.9	27.1	27.5
	12H	26.3	27.5	26.7	27.9	28.3	25.5	26.7	26.0	27.1	27.5
4H	2H	23.9	25.3	24.3	25.6	26.0	24.0	25.4	24.4	25.8	26.1
	3H	26.0	27.1	26.4	27.5	27.9	26.2	27.4	26.6	27.8	28.2
	4H	26.7	27.8	27.2	28.2	28.6	26.3	27.4	26.8	27.8	28.2
	6H	27.3	28.2	27.7	28.6	29.1	26.4	27.4	26.9	27.8	28.3
	8H	27.4	28.3	27.9	28.7	29.2	26.5	27.3	26.9	27.8	28.2
	12H	27.5	28.3	28.0	28.7	29.2	26.5	27.3	27.0	27.7	28.2
8H	4H	27.0	27.9	27.5	28.3	28.8	26.6	27.5	27.1	27.9	28.4
	6H	27.6	28.3	28.1	28.8	29.3	26.8	27.5	27.2	27.9	28.4
	8H	27.8	28.5	28.3	29.0	29.4	26.8	27.4	27.3	27.9	28.4
	12H	27.9	28.5	28.4	28.9	29.5	26.8	27.4	27.3	27.9	28.4
12H	4H	27.0	27.8	27.5	28.2	28.7	26.6	27.4	27.1	27.9	28.4
	6H	27.6	28.2	28.1	28.7	29.2	26.8	27.4	27.3	27.9	28.4
	8H	27.8	28.4	28.3	28.9	29.4	26.8	27.4	27.3	27.9	28.4

Maximum UGR = 29.5

POLAR GRAPH



Maximum Candela = 10911 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.)