



IES INDOOR REPORT

PHOTOMETRIC FILENAME : PBL G2 2 MH UV 850.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LLIA001249-009-R01(s)

[TESTLAB] LightLab International Allentown, LLC

[ISSUE DATE] 3/18/2020

[MANUFAC] Lumen Focus, LLC

[LUMCAT] PBL G2 2 MH UV 850

[LUMINAIRE] Surface/pendant mounted, formed white enamel aluminum housing/reflectors,

[MORE] no enclosure.

[LAMP] 224 white LEDs, two 20103 5000K 3437A1 LED boards with 112 LEDs each.

[BALLAST] One ULT Everline D21CC80UNVPW-C programmed at 1730mA

[OTHER] 120.0Vac, 60.00Hz, 0.7101A, 85.07W, 0.998PF, 4.9%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	14164
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	167
Total Luminaire Watts	85.07
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)	2.00 ft
Luminous Width (90-270)	0.92 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	28655	28028	28002
55	27723	27341	27627
65	25539	25883	27349
75	20581	22411	17061
85	7875	4948	5993

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1791.17	N.A.	12.60
0-30	3818.15	N.A.	27.00
0-40	6296.74	N.A.	44.50
0-60	11299.66	N.A.	79.80
0-80	14029.75	N.A.	99.00
0-90	14160.26	N.A.	100.00
10-90	13696.63	N.A.	96.70
20-40	4505.57	N.A.	31.80
20-50	7118.08	N.A.	50.30
40-70	6856.63	N.A.	48.40
60-80	2730.09	N.A.	19.30
70-80	876.38	N.A.	6.20
80-90	130.50	N.A.	0.90
90-110	4.06	N.A.	0.00
90-120	4.06	N.A.	0.00
90-130	4.06	N.A.	0.00
90-150	4.06	N.A.	0.00
90-180	4.06	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	14164.32	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	463.63
10-20	1327.54
20-30	2026.98
30-40	2478.59
40-50	2612.51
50-60	2390.41
60-70	1853.71
70-80	876.38
80-90	130.50
90-100	3.63
100-110	0.44
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	97	106	102	98	95	98	95	92	94	92	89	90	88	87	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70
3	90	80	72	65	88	78	71	65	75	69	63	72	67	62	70	65	61	59
4	83	71	62	55	80	69	61	55	67	60	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	51	45	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	28	27
10	53	39	32	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

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UGR TABLE - CORRECTED

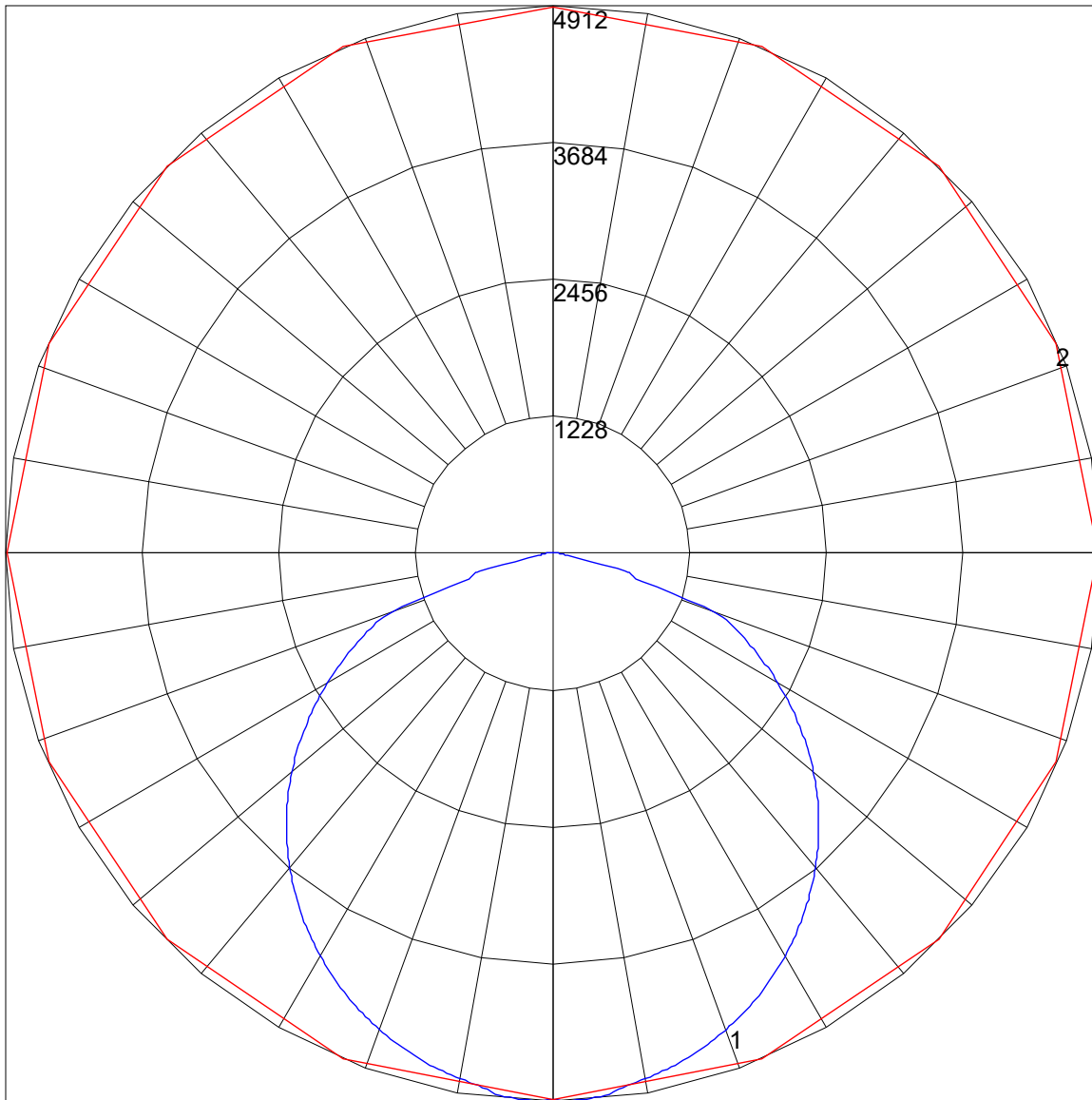
Reflectances

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	23.9	25.6	24.3	25.9	26.2
	3H	25.4	26.9	25.8	27.2	27.6	26.0	27.5	26.3	27.8	28.1
	4H	26.1	27.4	26.4	27.8	28.2	26.3	27.7	26.7	28.0	28.4
	6H	26.4	27.7	26.8	28.1	28.5	26.3	27.6	26.7	27.9	28.3
	8H	26.5	27.7	26.9	28.1	28.5	26.3	27.5	26.7	27.9	28.3
	12H	26.5	27.7	27.0	28.1	28.5	26.2	27.4	26.7	27.8	28.2
4H	2H	24.3	25.7	24.7	26.1	26.5	24.6	25.9	25.0	26.3	26.7
	3H	26.3	27.5	26.7	27.9	28.3	26.8	27.9	27.2	28.3	28.7
	4H	27.0	28.1	27.5	28.5	29.0	27.1	28.2	27.6	28.6	29.0
	6H	27.6	28.5	28.0	28.9	29.4	27.2	28.1	27.6	28.5	29.0
	8H	27.7	28.5	28.2	29.0	29.5	27.2	28.0	27.6	28.5	28.9
	12H	27.7	28.5	28.2	29.0	29.4	27.2	27.9	27.6	28.4	28.9
8H	4H	27.3	28.2	27.8	28.6	29.1	27.4	28.3	27.9	28.7	29.2
	6H	27.9	28.6	28.4	29.1	29.6	27.4	28.2	27.9	28.6	29.1
	8H	28.1	28.7	28.6	29.2	29.7	27.4	28.1	27.9	28.6	29.1
	12H	28.1	28.7	28.7	29.2	29.8	27.4	28.0	27.9	28.5	29.0
12H	4H	27.3	28.1	27.8	28.5	29.0	27.4	28.2	27.9	28.7	29.1
	6H	27.9	28.5	28.4	29.0	29.5	27.5	28.1	28.0	28.6	29.1
	8H	28.1	28.6	28.6	29.1	29.7	27.5	28.0	28.0	28.5	29.1

Maximum UGR = 29.8

POLAR GRAPH



Maximum Candela = 4911.953 Located At Horizontal Angle = 67.5, Vertical Angle = 1.5
1 - Vertical Plane Through Horizontal Angles (67.5 - 247.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (1.5) (Through Max. Cd.)