



IES INDOOR REPORT

PHOTOMETRIC FILENAME : PBL G2 2 MH UV FR 850.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LLIA001249-007A

[TESTLAB] LightLab International Allentown, LLC

[ISSUE DATE] 3/18/2020

[MANUFAC] Lumen Focus, LLC

[LUMCAT] PBL G2 2 MH UV FR 850

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

[MORE] frosted plastic enclosures below LEDs

[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, 0.7093A, 84.97W, 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	13247
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	156
Total Luminaire Watts	84.97
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
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	24223	25769	26851
55	21136	24832	26727
65	17246	23814	26961
75	13001	22176	19431
85	7805	16795	14565

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1721.02	N.A.	13.00
0-30	3649.98	N.A.	27.60
0-40	5966.32	N.A.	45.00
0-60	10474.88	N.A.	79.10
0-80	12998.97	N.A.	98.10
0-90	13243.37	N.A.	100.00
10-90	12797.22	N.A.	96.60
20-40	4245.3	N.A.	32.00
20-50	6627.44	N.A.	50.00
40-70	6138.44	N.A.	46.30
60-80	2524.08	N.A.	19.10
70-80	894.20	N.A.	6.80
80-90	244.41	N.A.	1.80
90-110	4.01	N.A.	0.00
90-120	4.01	N.A.	0.00
90-130	4.01	N.A.	0.00
90-150	4.01	N.A.	0.00
90-180	4.01	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	13247.39	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	446.16
10-20	1274.87
20-30	1928.96
30-40	2316.34
40-50	2382.14
50-60	2126.42
60-70	1629.88
70-80	894.20
80-90	244.41
90-100	3.65
100-110	0.36
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	94	91	88	90	88	86	84
2	99	91	84	78	96	89	82	77	85	80	75	82	77	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	83	70	62	55	80	69	61	55	67	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	51	45	40	38
7	65	51	43	36	63	51	42	36	49	41	36	48	41	36	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	44	37	32	42	36	32	30
9	56	43	35	29	55	42	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	26	52	39	32	26	38	31	26	37	31	26	36	30	26	24

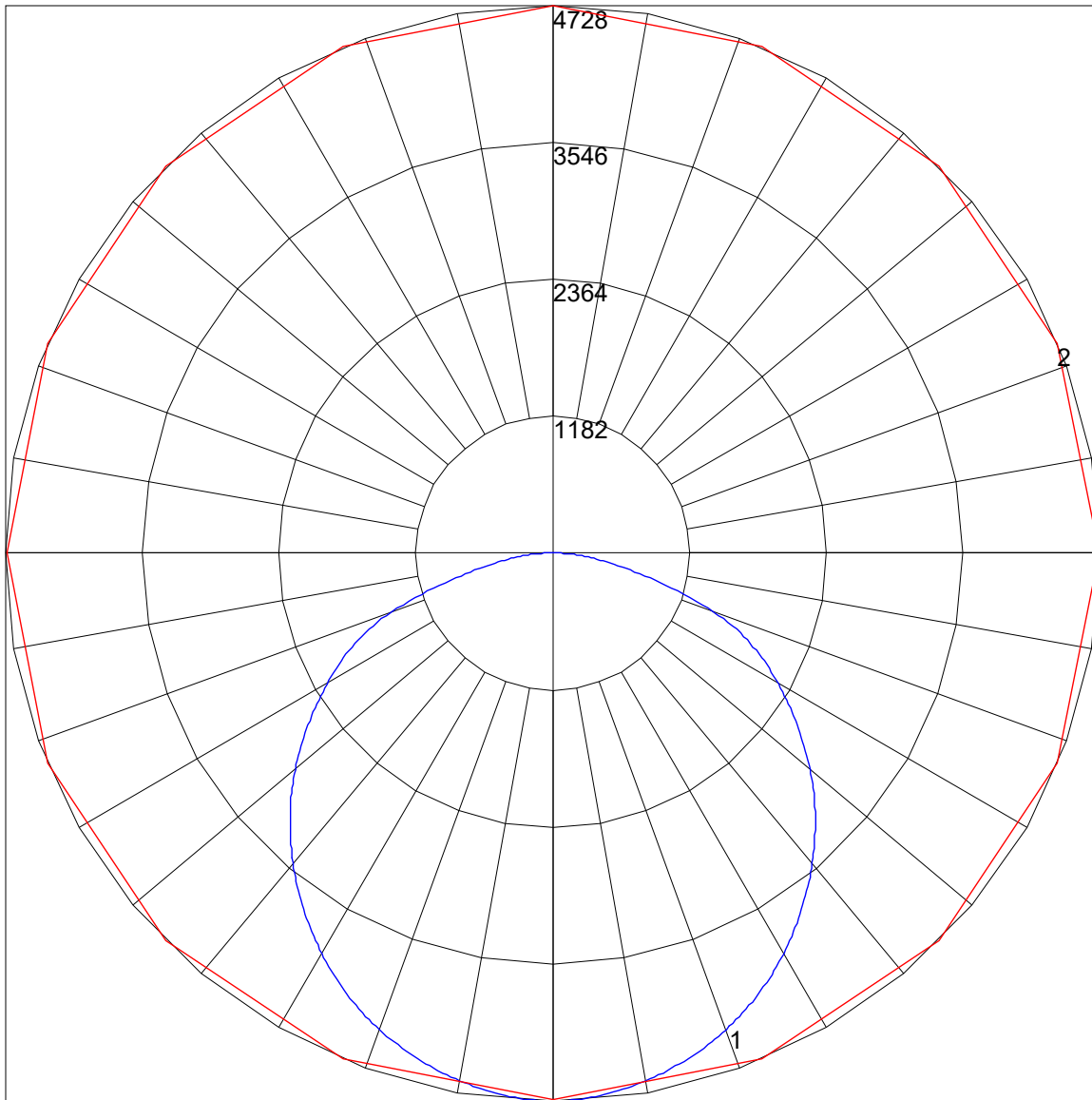
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UGR TABLE - CORRECTED

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	22.4	24.0	22.7	24.3	24.6	23.9	25.6	24.3	25.9	26.2
	3H	23.8	25.3	24.2	25.6	26.0	26.0	27.5	26.3	27.8	28.1
	4H	24.3	25.7	24.7	26.1	26.5	26.5	27.9	26.9	28.3	28.6
	6H	24.7	26.0	25.1	26.3	26.7	26.9	28.1	27.3	28.5	28.9
	8H	24.8	26.0	25.2	26.4	26.8	26.9	28.2	27.4	28.6	29.0
	12H	24.8	26.0	25.2	26.4	26.8	27.0	28.2	27.4	28.6	29.0
4H	2H	23.3	24.7	23.7	25.0	25.4	24.5	25.9	24.9	26.2	26.6
	3H	25.0	26.2	25.4	26.6	27.0	26.8	27.9	27.2	28.3	28.7
	4H	25.6	26.7	26.1	27.1	27.6	27.4	28.5	27.9	28.9	29.3
	6H	26.1	27.0	26.6	27.5	27.9	27.9	28.8	28.3	29.3	29.7
	8H	26.2	27.1	26.7	27.5	28.0	28.0	28.9	28.5	29.3	29.8
	12H	26.3	27.1	26.8	27.6	28.0	28.1	28.9	28.6	29.4	29.9
8H	4H	26.2	27.0	26.6	27.5	27.9	27.7	28.6	28.2	29.0	29.5
	6H	26.8	27.5	27.3	28.0	28.5	28.3	29.0	28.8	29.5	30.0
	8H	27.0	27.6	27.5	28.2	28.6	28.5	29.1	29.0	29.6	30.1
	12H	27.1	27.7	27.6	28.2	28.8	28.6	29.2	29.2	29.7	30.3
12H	4H	26.2	27.0	26.7	27.5	27.9	27.7	28.5	28.2	29.0	29.4
	6H	26.9	27.5	27.4	28.0	28.5	28.3	29.0	28.9	29.4	30.0
	8H	27.2	27.7	27.7	28.2	28.8	28.6	29.1	29.1	29.6	30.2

Maximum UGR = 30.3

POLAR GRAPH



Maximum Candela = 4727.574 Located At Horizontal Angle = 67.5, Vertical Angle = .5
1 - Vertical Plane Through Horizontal Angles (67.5 - 247.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (.5) (Through Max. Cd.)