

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : PBL G2 4 HI HE UV 840.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LLIA001249-011(s)

[TESTLAB] LightLab International Allentown, LLC

[ISSUE DATE] 3/18/2020

[MANUFAC] Lumen Focus, LLC

[LUMCAT] PBL G2 4 HI HE UV 840

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

[MORE] no enclosure.

[LAMP] 672 white LEDs, six 20103 4000K 3437A1 LED boards with 112 LEDs

[MORE] each.

[BALLAST] Two ULT Everline D21CC80UNVPW-C LED drivers each programmed at 1460mA

[OTHER] 120.0Vac, 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	24824
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	177
Total Luminaire Watts	140.3
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)	3.79 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	26496	25938	26022
55	25830	25370	25761
65	24459	24365	25467
75	20507	13971	14738
85	9672	5145	6643

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	3141.00	N.A.	12.70
0-30	6701.24	N.A.	27.00
0-40	11052.92	N.A.	44.50
0-60	19862.8	N.A.	80.00
0-80	24589.41	N.A.	99.10
0-90	24820.35	N.A.	100.00
10-90	24008.75	N.A.	96.70
20-40	7911.92	N.A.	31.90
20-50	12501.47	N.A.	50.40
40-70	12072.00	N.A.	48.60
60-80	4726.61	N.A.	19.00
70-80	1464.48	N.A.	5.90
80-90	230.94	N.A.	0.90
90-110	3.48	N.A.	0.00
90-120	3.48	N.A.	0.00
90-130	3.48	N.A.	0.00
90-150	3.48	N.A.	0.00
90-180	3.48	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	24823.83	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	811.60
10-20	2329.4
20-30	3560.24
30-40	4351.68
40-50	4589.55
50-60	4220.33
60-70	3262.13
70-80	1464.48
80-90	230.94
90-100	3.41
100-110	0.07
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	105	100	97	106	102	98	95	98	95	92	94	92	89	91	88	87	85
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61	59
4	83	71	62	55	80	69	61	55	67	60	54	64	58	53	62	57	53	50
5	76	63	54	47	74	62	53	47	60	52	47	58	51	46	56	50	46	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	31	26	36	30	26	24

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**UGR TABLE - CORRECTED**

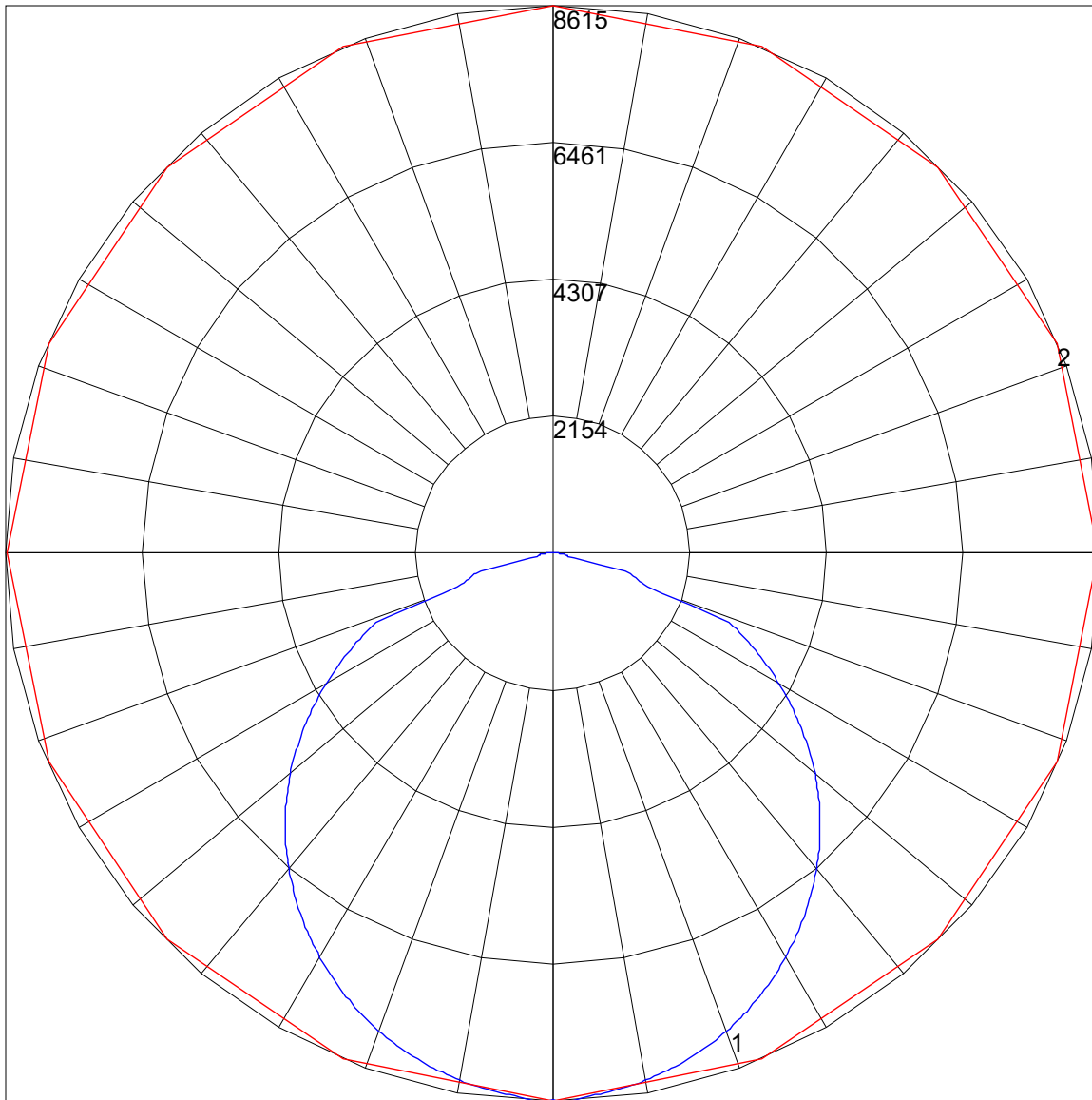
Reflectances

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	23.5	25.2	23.9	25.5	25.8	23.8	25.4	24.2	25.7	26.0
	3H	25.4	26.9	25.8	27.2	27.6	25.3	26.8	25.7	27.1	27.5
	4H	26.1	27.5	26.5	27.8	28.2	25.7	27.0	26.1	27.4	27.8
	6H	26.5	27.8	26.9	28.2	28.6	25.6	26.9	26.0	27.3	27.7
	8H	26.6	27.8	27.0	28.2	28.6	25.6	26.8	26.0	27.2	27.6
	12H	26.7	27.8	27.1	28.2	28.6	25.6	26.8	26.0	27.2	27.6
4H	2H	24.2	25.6	24.6	26.0	26.4	24.4	25.8	24.8	26.2	26.5
	3H	26.3	27.5	26.7	27.9	28.3	26.0	27.2	26.4	27.6	28.0
	4H	27.1	28.2	27.5	28.6	29.0	26.5	27.6	26.9	28.0	28.4
	6H	27.7	28.6	28.1	29.0	29.5	26.5	27.4	26.9	27.8	28.3
	8H	27.8	28.6	28.2	29.1	29.5	26.5	27.3	26.9	27.8	28.2
	12H	27.8	28.6	28.3	29.1	29.5	26.5	27.3	27.0	27.7	28.2
8H	4H	27.3	28.1	27.7	28.6	29.0	26.7	27.6	27.2	28.0	28.5
	6H	27.9	28.6	28.4	29.1	29.6	26.7	27.4	27.2	27.9	28.4
	8H	28.1	28.7	28.6	29.2	29.7	26.7	27.3	27.2	27.9	28.3
	12H	28.2	28.7	28.7	29.2	29.8	26.7	27.3	27.2	27.8	28.3
12H	4H	27.3	28.0	27.7	28.5	29.0	26.7	27.5	27.2	28.0	28.5
	6H	27.9	28.5	28.4	29.0	29.5	26.7	27.4	27.3	27.8	28.4
	8H	28.1	28.6	28.6	29.1	29.7	26.7	27.3	27.2	27.8	28.3

Maximum UGR = 29.8

POLAR GRAPH



Maximum Candela = 8614.918 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.)