



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : PBL G2 4W LW UV FR 840.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LLIA001249-017(s)

[TESTLAB] LightLab International Allentown, LLC

[ISSUE DATE] 3/24/2020

[MANUFAC] Lumen Focus, LLC

[LUMCAT] PBL G2 4W LW UV FR 840

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

[MORE] frosted plastic enclosures below LEDs.

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

[BALLAST] Two ULT Everline D28CC95UVPA12-F LED drivers each programmed to 1950mA

[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	30655
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	164
Total Luminaire Watts	187.4
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.26
Spacing Criterion (90-270)	1.28
Spacing Criterion (Diagonal)	1.38
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.79 ft
Luminous Width (90-270)	1.25 ft
Luminous Height	0.00 ft

### LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	21510	22879	23825
55	18796	21972	23653
65	15284	21081	23752
75	11493	20845	19710
85	7568	16026	14755

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	3949.25	N.A.	12.90
0-30	8382.92	N.A.	27.30
0-40	13709.36	N.A.	44.70
0-60	24061.09	N.A.	78.50
0-80	29989.18	N.A.	97.80
0-90	30635.7	N.A.	99.90
10-90	29613.6	N.A.	96.60
20-40	9760.11	N.A.	31.80
20-50	15232.45	N.A.	49.70
40-70	14094.46	N.A.	46.00
60-80	5928.09	N.A.	19.30
70-80	2185.37	N.A.	7.10
80-90	646.52	N.A.	2.10
90-110	19.56	N.A.	0.10
90-120	19.56	N.A.	0.10
90-130	19.56	N.A.	0.10
90-150	19.56	N.A.	0.10
90-180	19.56	N.A.	0.10
110-180	0.00	N.A.	0.00
0-180	30655.26	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	1022.1
10-20	2927.14
20-30	4433.68
30-40	5326.43
40-50	5472.33
50-60	4879.4
60-70	3742.73
70-80	2185.37
80-90	646.52
90-100	19.46
100-110	0.10
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	99	95	106	101	98	94	97	94	91	93	91	88	90	87	85	83
2	99	90	83	78	96	88	82	77	85	79	75	82	77	73	78	75	72	69
3	90	79	71	64	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	53	64	58	53	62	56	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	41	35	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	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24

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**UGR TABLE - CORRECTED**

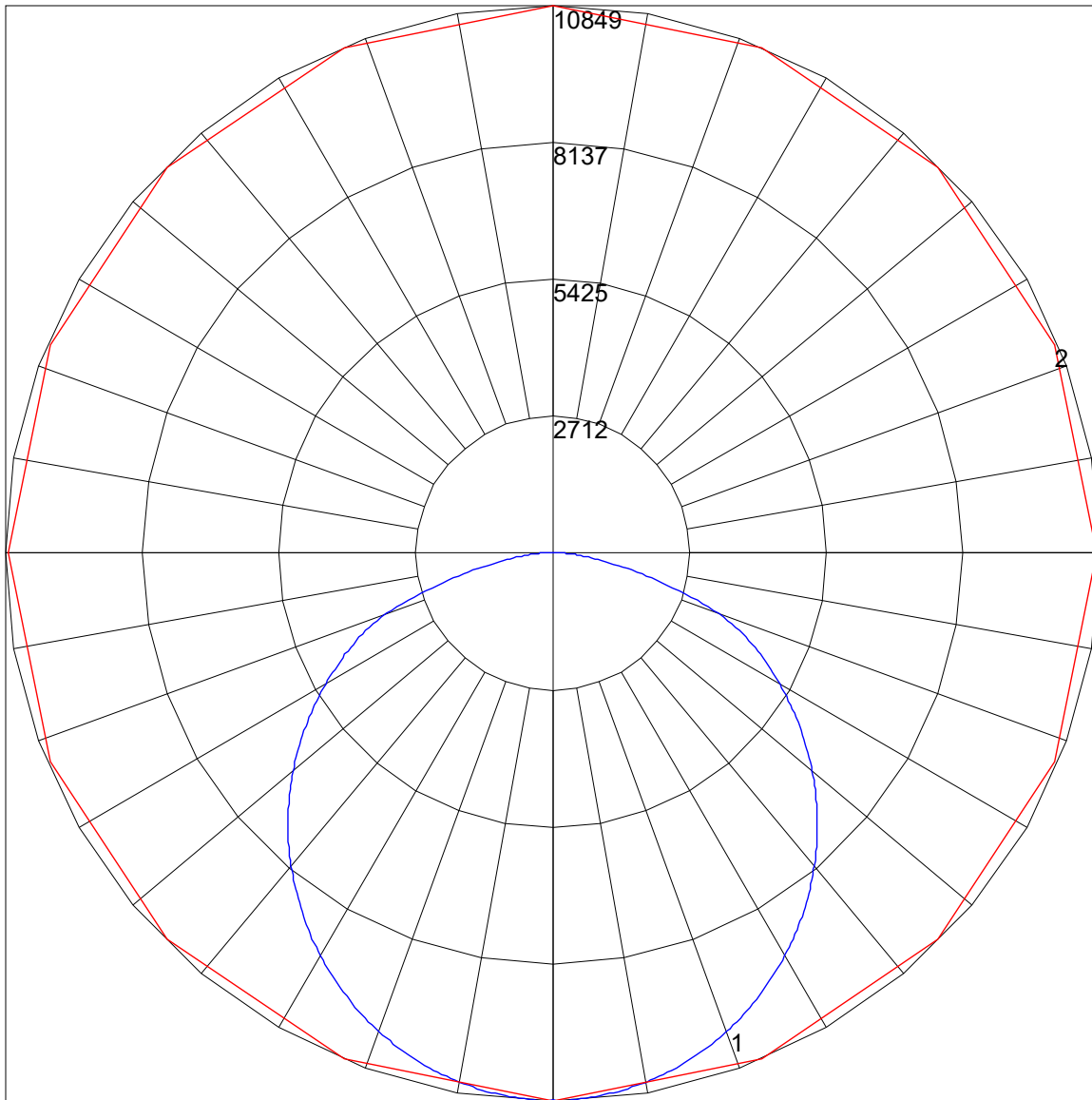
Reflectances

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	21.9	23.6	22.3	23.9	24.2	23.4	25.1	23.8	25.4	25.7
	3H	23.4	24.9	23.8	25.2	25.6	25.6	27.0	25.9	27.4	27.7
	4H	23.9	25.3	24.3	25.7	26.0	26.2	27.6	26.6	28.0	28.4
	6H	24.2	25.6	24.7	25.9	26.3	26.7	28.0	27.1	28.3	28.7
	8H	24.3	25.6	24.8	26.0	26.4	26.8	28.0	27.2	28.4	28.8
	12H	24.4	25.6	24.8	26.0	26.4	26.9	28.1	27.3	28.4	28.9
4H	2H	22.9	24.3	23.3	24.6	25.0	24.0	25.4	24.4	25.7	26.1
	3H	24.6	25.8	25.0	26.2	26.6	26.4	27.6	26.8	28.0	28.4
	4H	25.2	26.3	25.6	26.7	27.1	27.2	28.3	27.6	28.7	29.1
	6H	25.7	26.6	26.2	27.1	27.5	27.8	28.7	28.2	29.1	29.6
	8H	25.9	26.7	26.3	27.2	27.6	27.9	28.8	28.4	29.2	29.7
	12H	25.9	26.7	26.4	27.2	27.7	28.0	28.8	28.5	29.3	29.8
8H	4H	25.8	26.7	26.3	27.1	27.6	27.5	28.4	28.0	28.8	29.3
	6H	26.5	27.2	27.0	27.7	28.2	28.2	28.9	28.7	29.4	29.9
	8H	26.7	27.4	27.2	27.9	28.4	28.4	29.1	28.9	29.6	30.1
	12H	26.9	27.5	27.4	28.0	28.5	28.6	29.2	29.1	29.7	30.2
12H	4H	25.9	26.7	26.4	27.2	27.6	27.5	28.3	28.0	28.8	29.2
	6H	26.6	27.3	27.1	27.7	28.3	28.2	28.9	28.8	29.4	29.9
	8H	26.9	27.5	27.4	28.0	28.5	28.5	29.1	29.0	29.6	30.2

Maximum UGR = 30.2

POLAR GRAPH



Maximum Candela = 10849.157 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.)