



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : PBL G2 2W HI HE UV 840.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LLIA001249-015(s)

[TESTLAB] LightLab International Allentown, LLC

[ISSUE DATE] 3/18/2020

[MANUFAC] Lumen Focus, LLC

[LUMCAT] PBL G2 2W HI HE UV 840

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

[MORE] no enclosure.

[LAMP] 448 white LEDs, four 20103 4000K 3437A1 LED boards with 112 LEDs

[MORE] each.

[BALLAST] One ULT Everline D28CC95UNVPA12-F LED driver programmed at 2100mA

[OTHER] 120.0Vac, 60.00Hz, 0.8312A, 99.05W, 0.993PF, 4.0%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	17779
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	179
Total Luminaire Watts	99.05
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.30
Spacing Criterion (90-270)	1.28
Spacing Criterion (Diagonal)	1.42
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	2.00 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	25911	25703	25709
55	25154	25130	25294
65	22889	23680	24228
75	18455	20779	17663
85	7566	7311	8384

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	2220.92	N.A.	12.50
0-30	4745.00	N.A.	26.70
0-40	7834.86	N.A.	44.10
0-60	14086.41	N.A.	79.20
0-80	17563.75	N.A.	98.80
0-90	17776.5	N.A.	100.00
10-90	17203.94	N.A.	96.80
20-40	5613.94	N.A.	31.60
20-50	8876.07	N.A.	49.90
40-70	8540.75	N.A.	48.00
60-80	3477.34	N.A.	19.60
70-80	1188.13	N.A.	6.70
80-90	212.75	N.A.	1.20
90-110	2.77	N.A.	0.00
90-120	2.77	N.A.	0.00
90-130	2.77	N.A.	0.00
90-150	2.77	N.A.	0.00
90-180	2.77	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	17779.27	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	572.56
10-20	1648.37
20-30	2524.08
30-40	3089.86
40-50	3262.13
50-60	2989.42
60-70	2289.21
70-80	1188.13
80-90	212.75
90-100	2.69
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	75	82	78	74	79	75	72	70
3	90	79	71	65	88	78	70	64	75	68	63	72	67	62	70	65	61	59
4	82	70	61	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	37
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	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	28	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**

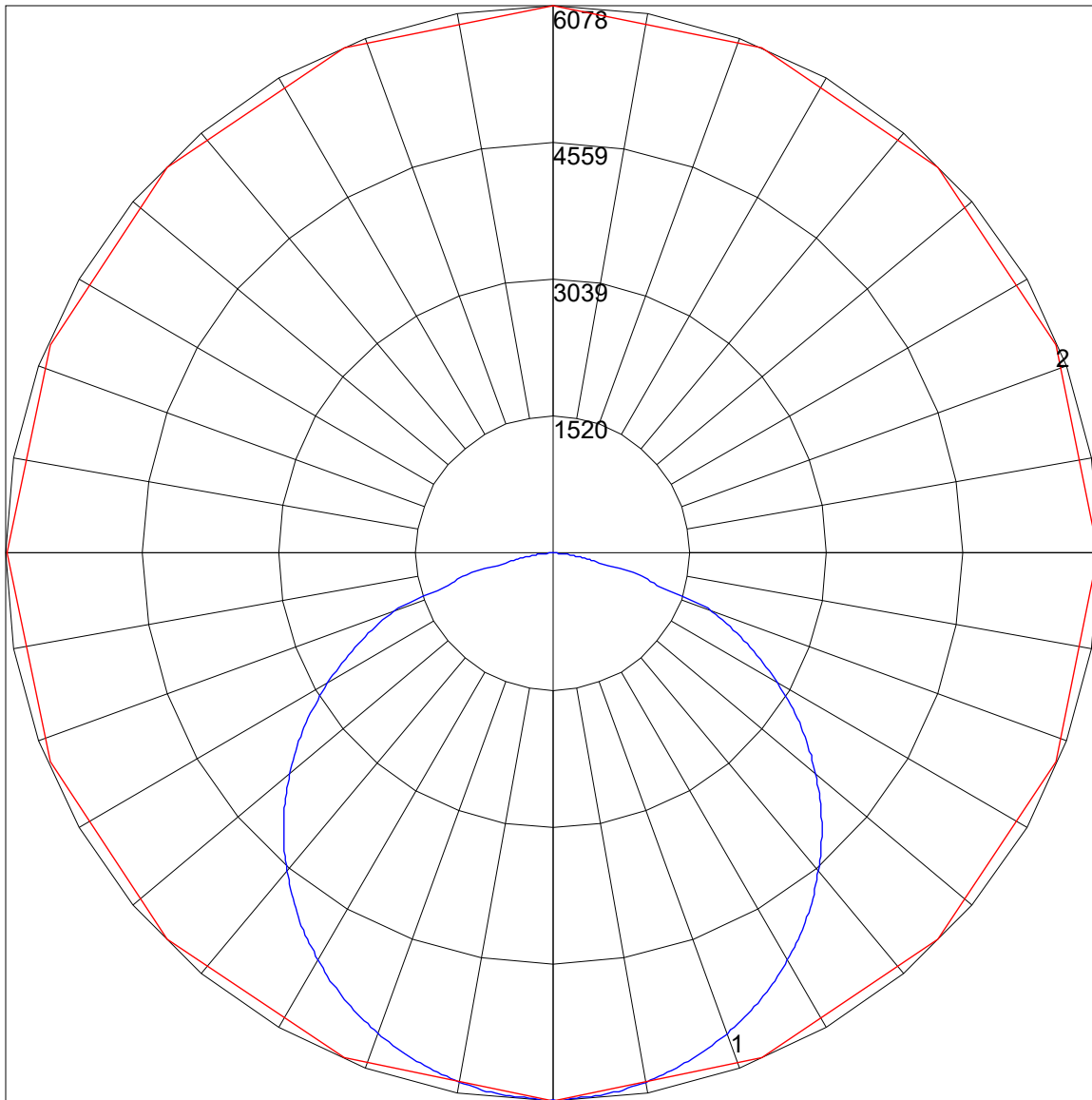
Reflectances

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	23.4	25.1	23.8	25.4	25.7	23.6	25.2	23.9	25.5	25.8
	3H	25.1	26.6	25.5	27.0	27.3	25.5	27.0	25.9	27.3	27.7
	4H	25.7	27.1	26.1	27.5	27.9	25.9	27.4	26.3	27.7	28.1
	6H	26.1	27.4	26.5	27.8	28.2	26.1	27.4	26.5	27.8	28.2
	8H	26.2	27.4	26.6	27.8	28.2	26.2	27.4	26.6	27.8	28.2
	12H	26.2	27.4	26.6	27.8	28.2	26.2	27.4	26.6	27.8	28.2
4H	2H	24.1	25.5	24.5	25.8	26.2	24.2	25.6	24.6	26.0	26.3
	3H	26.0	27.2	26.4	27.6	28.0	26.4	27.5	26.8	27.9	28.3
	4H	26.7	27.8	27.2	28.2	28.6	26.9	28.0	27.4	28.4	28.8
	6H	27.2	28.1	27.7	28.6	29.0	27.2	28.1	27.6	28.5	29.0
	8H	27.3	28.2	27.8	28.6	29.1	27.2	28.1	27.7	28.5	29.0
	12H	27.4	28.1	27.8	28.6	29.1	27.2	28.0	27.7	28.5	29.0
8H	4H	27.0	27.9	27.5	28.3	28.8	27.2	28.0	27.6	28.5	29.0
	6H	27.6	28.3	28.1	28.8	29.3	27.5	28.2	28.0	28.7	29.2
	8H	27.8	28.4	28.3	28.9	29.4	27.6	28.2	28.1	28.7	29.2
	12H	27.8	28.4	28.3	28.9	29.5	27.6	28.2	28.1	28.7	29.3
12H	4H	27.0	27.8	27.5	28.3	28.7	27.2	28.0	27.7	28.5	28.9
	6H	27.6	28.3	28.1	28.7	29.2	27.5	28.2	28.0	28.6	29.2
	8H	27.8	28.4	28.3	28.9	29.4	27.6	28.2	28.1	28.7	29.2

Maximum UGR = 29.5

POLAR GRAPH



Maximum Candela = 6078.309 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.)