

IES INDOOR REPORT

PHOTOMETRIC FILENAME : PBL G2 4W HI HE UV 850.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LLIA001249-018(s)

[TESTLAB] LightLab International Allentown, LLC

[ISSUE DATE] 3/24/2020

[MANUFAC] Lumen Focus, LLC

[LUMCAT] PBL G2 4W HI HE UV 850

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

[MORE] no enclosure.

[LAMP] 896 white LEDs, eight 20103 5000K 3437A1 LED boards with 112 LEDs each.

[BALLAST] Four ULT Everline D15CC55UNVPW-C LED drivers each programmed to 1200mA

[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	40318
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	172
Total Luminaire Watts	234.5
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)	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	30907	30602	30754
55	30066	29922	30274
65	27995	28342	29275
75	23521	26000	20049
85	12018	8047	8862

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	5032.06	N.A.	12.50
0-30	10747.87	N.A.	26.70
0-40	17740.41	N.A.	44.00
0-60	31878.4	N.A.	79.10
0-80	39834.78	N.A.	98.80
0-90	40312.64	N.A.	100.00
10-90	39014.8	N.A.	96.80
20-40	12708.35	N.A.	31.50
20-50	20080.9	N.A.	49.80
40-70	19375.28	N.A.	48.10
60-80	7956.39	N.A.	19.70
70-80	2719.09	N.A.	6.70
80-90	477.85	N.A.	1.20
90-110	4.96	N.A.	0.00
90-120	4.96	N.A.	0.00
90-130	4.96	N.A.	0.00
90-150	4.96	N.A.	0.00
90-180	4.96	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	40317.6	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1297.84
10-20	3734.22
20-30	5715.81
30-40	6992.55
40-50	7372.54
50-60	6765.44
60-70	5237.29
70-80	2719.09
80-90	477.85
90-100	4.94
100-110	0.02
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	94	92	94	91	89	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	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	53	64	58	53	62	56	52	50
5	76	63	54	47	73	61	53	47	59	52	46	57	51	46	55	50	45	43
6	70	56	47	41	68	55	47	41	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	49	41	35	47	40	35	46	40	35	33
8	60	46	38	32	58	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

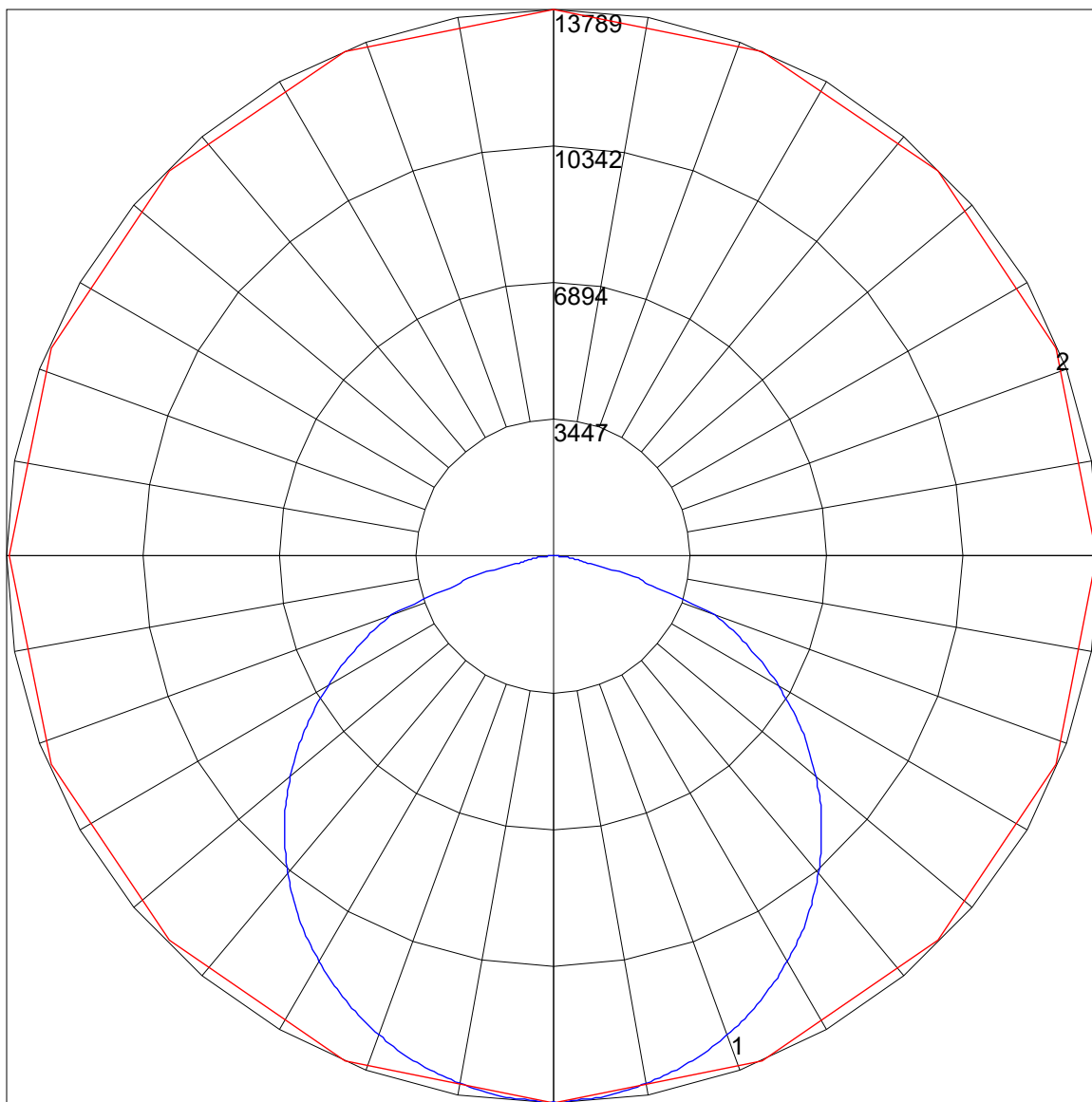
Reflectances

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	24.1	25.7	24.4	26.0	26.3	24.3	25.9	24.6	26.2	26.5
	3H	25.9	27.4	26.3	27.7	28.1	26.2	27.7	26.6	28.1	28.4
	4H	26.5	27.9	26.9	28.3	28.6	26.6	28.0	27.0	28.4	28.8
	6H	26.9	28.2	27.3	28.6	29.0	26.7	28.1	27.2	28.4	28.8
	8H	27.1	28.3	27.5	28.7	29.1	26.8	28.0	27.2	28.4	28.8
	12H	27.1	28.3	27.5	28.7	29.1	26.8	28.0	27.2	28.3	28.8
4H	2H	24.7	26.1	25.1	26.5	26.9	24.9	26.3	25.3	26.6	27.0
	3H	26.8	27.9	27.2	28.3	28.7	27.1	28.3	27.5	28.7	29.1
	4H	27.5	28.6	28.0	29.0	29.4	27.6	28.7	28.0	29.1	29.5
	6H	28.1	29.0	28.5	29.4	29.9	27.8	28.7	28.2	29.1	29.6
	8H	28.2	29.1	28.7	29.5	30.0	27.8	28.7	28.2	29.1	29.6
	12H	28.3	29.1	28.8	29.5	30.0	27.8	28.6	28.3	29.1	29.5
8H	4H	27.8	28.7	28.3	29.1	29.6	27.9	28.7	28.3	29.2	29.6
	6H	28.5	29.2	28.9	29.7	30.1	28.1	28.8	28.6	29.3	29.8
	8H	28.7	29.3	29.2	29.8	30.3	28.1	28.8	28.6	29.3	29.8
	12H	28.8	29.3	29.3	29.8	30.4	28.2	28.7	28.7	29.2	29.8
12H	4H	27.8	28.6	28.3	29.1	29.5	27.9	28.7	28.4	29.1	29.6
	6H	28.5	29.1	29.0	29.6	30.1	28.1	28.8	28.6	29.2	29.8
	8H	28.7	29.3	29.2	29.8	30.3	28.2	28.7	28.7	29.2	29.8

Maximum UGR = 30.4

POLAR GRAPH



Maximum Candela = 13788.985 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.)