



IES INDOOR REPORT

PHOTOMETRIC FILENAME : PBL G2 4W VH 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 VH 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 D21CC80UNVPW-C LED drivers each programmed to 1630mA

[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	53801
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	168
Total Luminaire Watts	319.5
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	41243	40836	41039
55	40121	39929	40398
65	37358	37821	39066
75	31387	34695	26754
85	16037	10738	11826

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	6714.93	N.A.	12.50
0-30	14342.27	N.A.	26.70
0-40	23673.34	N.A.	44.00
0-60	42539.49	N.A.	79.10
0-80	53156.73	N.A.	98.80
0-90	53794.39	N.A.	100.00
10-90	52062.52	N.A.	96.80
20-40	16958.41	N.A.	31.50
20-50	26796.55	N.A.	49.80
40-70	25854.95	N.A.	48.10
60-80	10617.24	N.A.	19.70
70-80	3628.44	N.A.	6.70
80-90	637.66	N.A.	1.20
90-110	6.62	N.A.	0.00
90-120	6.62	N.A.	0.00
90-130	6.62	N.A.	0.00
90-150	6.62	N.A.	0.00
90-180	6.62	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	53801.01	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1731.87
10-20	4983.05
20-30	7627.35
30-40	9331.06
40-50	9838.14
50-60	9028.01
60-70	6988.8
70-80	3628.44
80-90	637.66
90-100	6.59
100-110	0.03
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

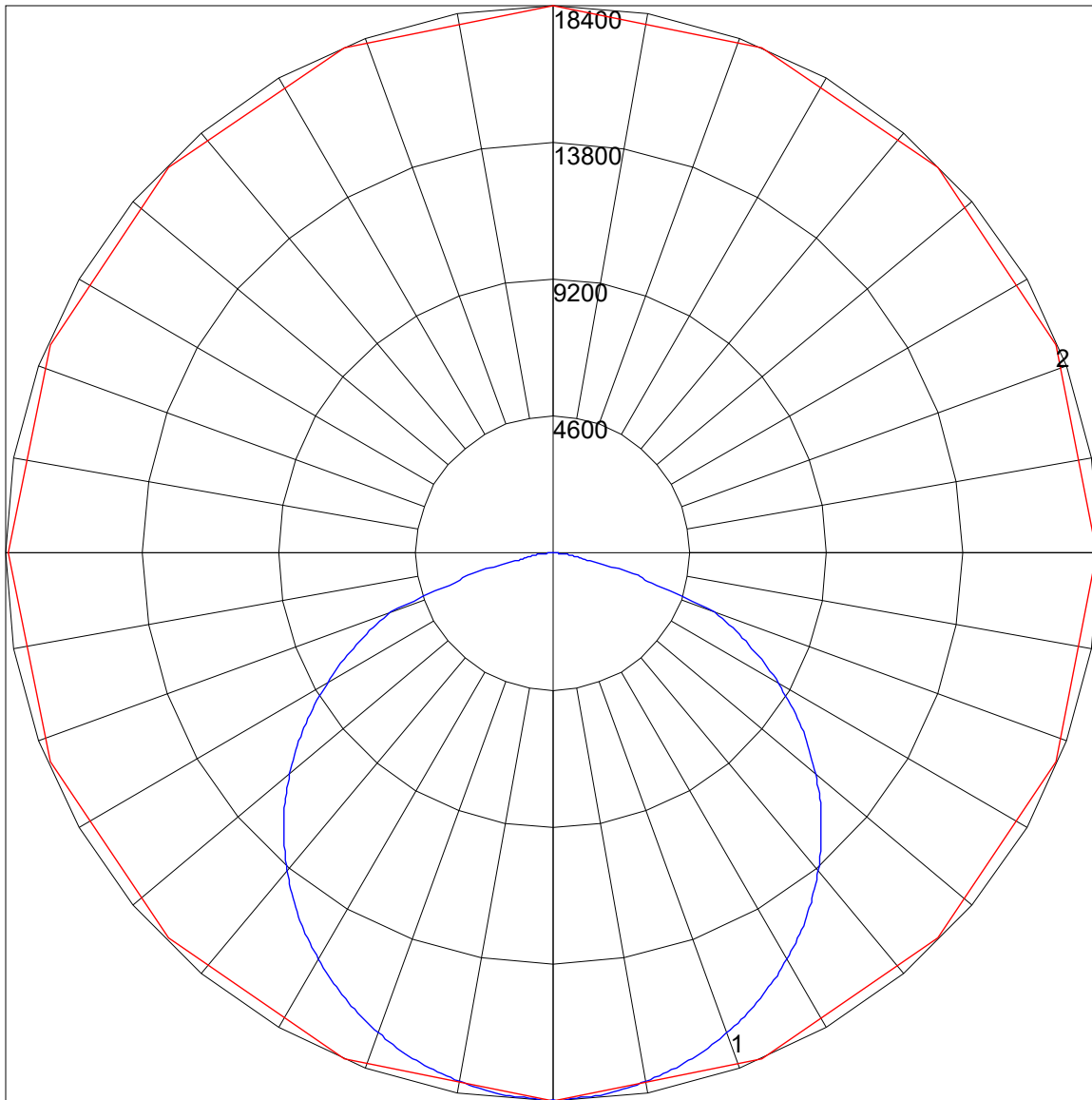
Reflectances

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	25.1	26.7	25.4	27.0	27.3	25.3	26.9	25.6	27.2	27.5
	3H	26.9	28.4	27.3	28.7	29.1	27.2	28.7	27.6	29.1	29.4
	4H	27.5	28.9	27.9	29.3	29.6	27.6	29.0	28.0	29.4	29.8
	6H	27.9	29.2	28.3	29.6	30.0	27.7	29.1	28.2	29.4	29.8
	8H	28.1	29.3	28.5	29.7	30.1	27.8	29.0	28.2	29.4	29.8
	12H	28.1	29.3	28.5	29.7	30.1	27.8	29.0	28.2	29.3	29.8
4H	2H	25.7	27.1	26.1	27.5	27.9	25.9	27.3	26.3	27.6	28.0
	3H	27.8	28.9	28.2	29.3	29.7	28.1	29.3	28.5	29.7	30.1
	4H	28.5	29.6	29.0	30.0	30.4	28.6	29.7	29.0	30.1	30.5
	6H	29.1	30.0	29.5	30.4	30.9	28.8	29.7	29.2	30.1	30.6
	8H	29.2	30.1	29.7	30.5	31.0	28.8	29.7	29.2	30.1	30.6
	12H	29.3	30.1	29.8	30.5	31.0	28.8	29.6	29.3	30.1	30.5
8H	4H	28.8	29.7	29.3	30.1	30.6	28.9	29.7	29.3	30.2	30.6
	6H	29.5	30.2	29.9	30.7	31.1	29.1	29.8	29.6	30.3	30.8
	8H	29.7	30.3	30.2	30.8	31.3	29.1	29.8	29.6	30.3	30.8
	12H	29.8	30.3	30.3	30.8	31.4	29.2	29.7	29.7	30.2	30.8
12H	4H	28.8	29.6	29.3	30.1	30.5	28.9	29.7	29.4	30.1	30.6
	6H	29.5	30.1	30.0	30.6	31.1	29.1	29.8	29.6	30.2	30.8
	8H	29.7	30.3	30.2	30.8	31.3	29.2	29.7	29.7	30.2	30.8

Maximum UGR = 31.4

POLAR GRAPH



Maximum Candela = 18400.436 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.)