



IES INDOOR REPORT

PHOTOMETRIC FILENAME : PBL G2 4 MD UV 850.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 MD UV 850

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

[MORE] no enclosure.

[LAMP] 448 white LEDs, four 20103 5000K 3437A1 LED boards with 112 LEDs

[MORE] each.

[BALLAST] Two ULT Everline D15CC55UNVPW-C LED drivers each programmed at 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	20158
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	172
Total Luminaire Watts	117.3
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	21516	21063	21131
55	20976	20602	20919
65	19862	19786	20680
75	16653	11345	11969
85	7854	4178	5395

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	2550.67	N.A.	12.70
0-30	5441.79	N.A.	27.00
0-40	8975.61	N.A.	44.50
0-60	16129.73	N.A.	80.00
0-80	19968.01	N.A.	99.10
0-90	20155.55	N.A.	100.00
10-90	19496.48	N.A.	96.70
20-40	6424.94	N.A.	31.90
20-50	10151.91	N.A.	50.40
40-70	9803.16	N.A.	48.60
60-80	3838.28	N.A.	19.00
70-80	1189.24	N.A.	5.90
80-90	187.54	N.A.	0.90
90-110	2.83	N.A.	0.00
90-120	2.83	N.A.	0.00
90-130	2.83	N.A.	0.00
90-150	2.83	N.A.	0.00
90-180	2.83	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	20158.37	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	659.07
10-20	1891.6
20-30	2891.12
30-40	3533.82
40-50	3726.98
50-60	3427.15
60-70	2649.04
70-80	1189.24
80-90	187.54
90-100	2.77
100-110	0.06
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

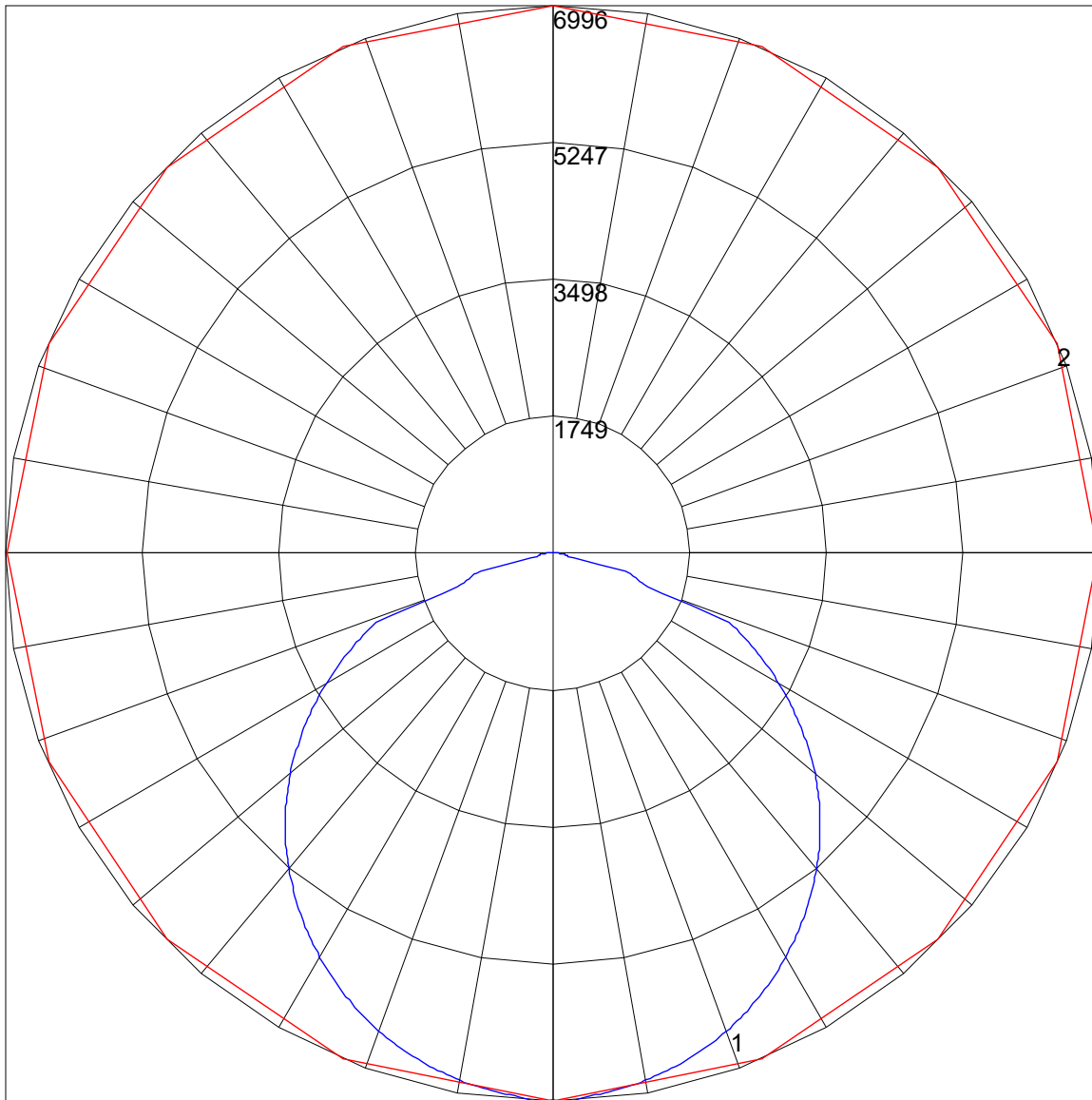
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UGR TABLE - CORRECTED

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	22.7	24.4	23.1	24.7	25.0	23.0	24.6	23.4	24.9	25.2
	3H	24.6	26.1	25.0	26.4	26.8	24.5	26.0	24.9	26.3	26.7
	4H	25.3	26.7	25.7	27.0	27.4	24.9	26.2	25.3	26.6	27.0
	6H	25.7	27.0	26.1	27.4	27.8	24.8	26.1	25.2	26.5	26.9
	8H	25.8	27.0	26.2	27.4	27.8	24.8	26.0	25.2	26.4	26.8
	12H	25.9	27.0	26.3	27.4	27.8	24.8	26.0	25.2	26.4	26.8
4H	2H	23.4	24.8	23.8	25.2	25.6	23.6	25.0	24.0	25.4	25.7
	3H	25.5	26.7	25.9	27.1	27.5	25.2	26.4	25.6	26.8	27.2
	4H	26.3	27.4	26.7	27.8	28.2	25.7	26.8	26.1	27.2	27.6
	6H	26.9	27.8	27.3	28.2	28.7	25.7	26.6	26.1	27.0	27.5
	8H	27.0	27.8	27.4	28.3	28.7	25.7	26.5	26.1	27.0	27.4
	12H	27.0	27.8	27.5	28.3	28.7	25.7	26.5	26.2	26.9	27.4
8H	4H	26.5	27.3	26.9	27.8	28.2	25.9	26.8	26.4	27.2	27.7
	6H	27.1	27.8	27.6	28.3	28.8	25.9	26.6	26.4	27.1	27.6
	8H	27.3	27.9	27.8	28.4	28.9	25.9	26.5	26.4	27.1	27.5
	12H	27.4	27.9	27.9	28.4	29.0	25.9	26.5	26.4	27.0	27.5
12H	4H	26.5	27.2	26.9	27.7	28.2	25.9	26.7	26.4	27.2	27.7
	6H	27.1	27.7	27.6	28.2	28.7	25.9	26.6	26.5	27.0	27.6
	8H	27.3	27.8	27.8	28.3	28.9	25.9	26.5	26.4	27.0	27.5

Maximum UGR = 29.0

POLAR GRAPH



Maximum Candela = 6995.807 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.)