



IES INDOOR REPORT

PHOTOMETRIC FILENAME : PBL G2 4W HI 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 HI 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] Three ULT Everline D21CC80UNVPW-C LED drivers each programmed

[MORE] at 1660mA

[OTHER] 120.0Vac, 60.00Hz, 2.043A, 244.5W, 0.997PF, 5.3%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	38992
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	160
Total Luminaire Watts	244.45
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	27359	29100	30303
55	23907	27947	30086
65	19440	26814	30211
75	14619	26513	25070
85	9626	20385	18767

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	5023.2	N.A.	12.90
0-30	10662.56	N.A.	27.30
0-40	17437.46	N.A.	44.70
0-60	30604.23	N.A.	78.50
0-80	38144.4	N.A.	97.80
0-90	38966.73	N.A.	99.90
10-90	37666.68	N.A.	96.60
20-40	12414.26	N.A.	31.80
20-50	19374.73	N.A.	49.70
40-70	17927.29	N.A.	46.00
60-80	7540.17	N.A.	19.30
70-80	2779.65	N.A.	7.10
80-90	822.33	N.A.	2.10
90-110	24.88	N.A.	0.10
90-120	24.88	N.A.	0.10
90-130	24.88	N.A.	0.10
90-150	24.88	N.A.	0.10
90-180	24.88	N.A.	0.10
110-180	0.00	N.A.	0.00
0-180	38991.6	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1300.05
10-20	3723.15
20-30	5639.37
30-40	6774.9
40-50	6960.47
50-60	6206.3
60-70	4760.52
70-80	2779.65
80-90	822.33
90-100	24.75
100-110	0.13
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

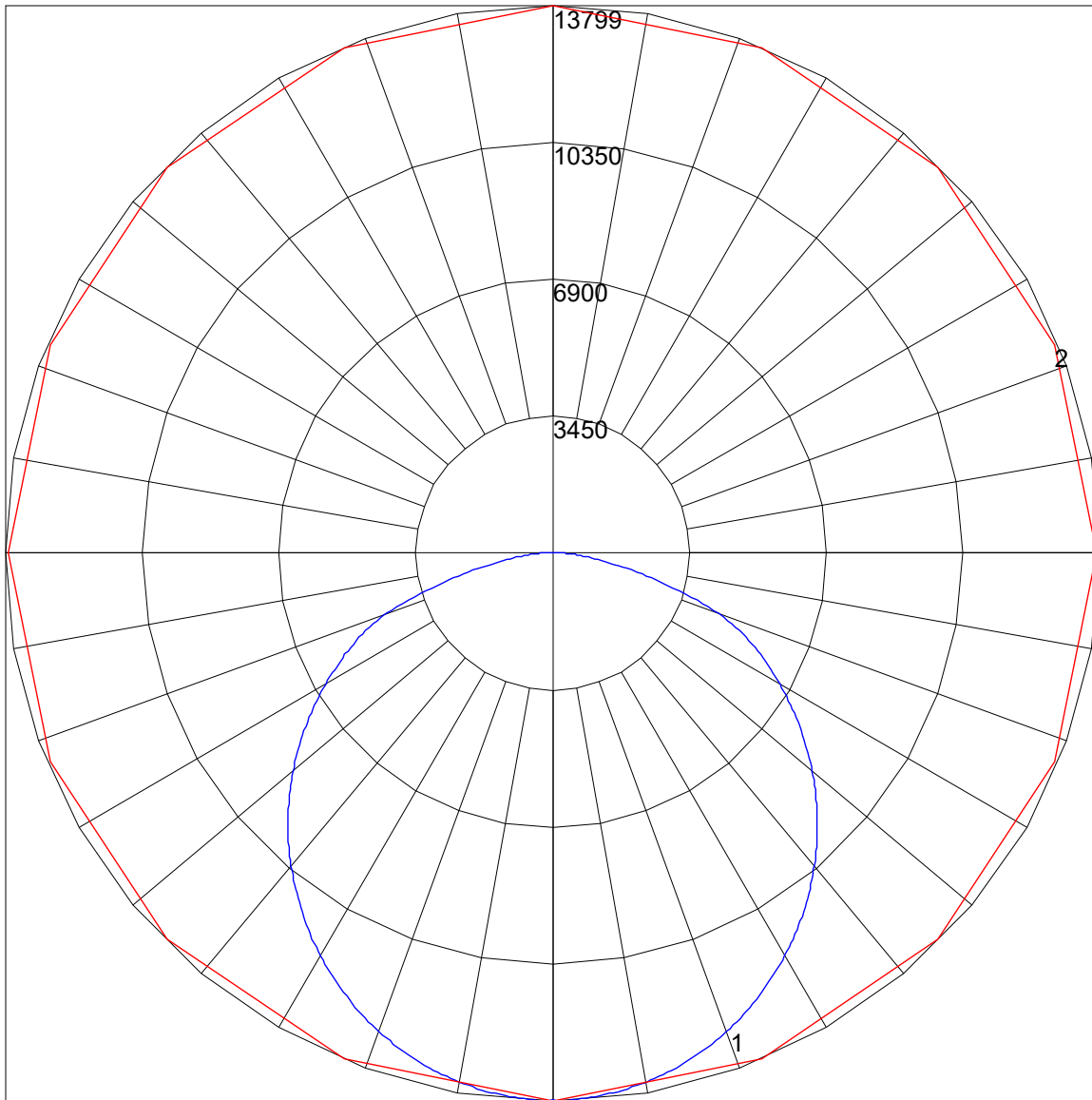
Reflectances

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	22.7	24.4	23.1	24.7	25.0	24.2	25.9	24.6	26.2	26.5
	3H	24.2	25.7	24.6	26.0	26.4	26.4	27.8	26.7	28.2	28.5
	4H	24.7	26.1	25.1	26.5	26.8	27.0	28.4	27.4	28.8	29.2
	6H	25.0	26.4	25.5	26.7	27.1	27.5	28.8	27.9	29.1	29.5
	8H	25.1	26.4	25.6	26.8	27.2	27.6	28.8	28.0	29.2	29.6
	12H	25.2	26.4	25.6	26.8	27.2	27.7	28.9	28.1	29.2	29.7
4H	2H	23.7	25.1	24.1	25.4	25.8	24.8	26.2	25.2	26.5	26.9
	3H	25.4	26.6	25.8	27.0	27.4	27.2	28.4	27.6	28.8	29.2
	4H	26.0	27.1	26.4	27.5	27.9	28.0	29.1	28.4	29.5	29.9
	6H	26.5	27.4	27.0	27.9	28.3	28.6	29.5	29.0	29.9	30.4
	8H	26.7	27.5	27.1	28.0	28.4	28.7	29.6	29.2	30.0	30.5
	12H	26.7	27.5	27.2	28.0	28.5	28.8	29.6	29.3	30.1	30.6
8H	4H	26.6	27.5	27.1	27.9	28.4	28.3	29.2	28.8	29.6	30.1
	6H	27.3	28.0	27.8	28.5	29.0	29.0	29.7	29.5	30.2	30.7
	8H	27.5	28.2	28.0	28.7	29.2	29.2	29.9	29.7	30.4	30.9
	12H	27.7	28.3	28.2	28.8	29.3	29.4	30.0	29.9	30.5	31.0
12H	4H	26.7	27.5	27.2	28.0	28.4	28.3	29.1	28.8	29.6	30.0
	6H	27.4	28.1	27.9	28.5	29.1	29.0	29.7	29.6	30.2	30.7
	8H	27.7	28.3	28.2	28.8	29.3	29.3	29.9	29.8	30.4	31.0

Maximum UGR = 31.0

POLAR GRAPH



Maximum Candela = 13799.461 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.)