



IES INDOOR REPORT

PHOTOMETRIC FILENAME : PBL G2 2 MD UV FR 840.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LLIA001249-007A(s)

[TESTLAB] LightLab International Allentown, LLC

[ISSUE DATE] 3/18/2020

[MANUFAC] Lumen Focus, LLC

[LUMCAT] PBL G2 2 MD UV FR 840

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

[MORE] frosted plastic enclosures below LEDs

[LAMP] 224 white LEDs, two 20103 4000K 3437A1 LED boards with 112 LEDs each.

[BALLAST] One ULT Everline D21CC80UNVPW-C programmed at 1460mA

[OTHER] 120.0Vac, 60.00Hz

[OTHER] This test was performed using the absolute method of photometry.

[MORE] Lamp lumens value was set to -1

[LAMPCAT]

[BALLASTCAT]

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	11400
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	160
Total Luminaire Watts	71.3
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.24
Spacing Criterion (90-270)	1.28
Spacing Criterion (Diagonal)	1.38
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	2.00 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	20844	22174	23106
55	18188	21368	22999
65	14840	20492	23201
75	11187	19083	16720
85	6716	14452	12533

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1480.96	N.A.	13.00
0-30	3140.86	N.A.	27.60
0-40	5134.1	N.A.	45.00
0-60	9013.77	N.A.	79.10
0-80	11185.78	N.A.	98.10
0-90	11396.09	N.A.	100.00
10-90	11012.17	N.A.	96.60
20-40	3653.14	N.A.	32.00
20-50	5703.00	N.A.	50.00
40-70	5282.21	N.A.	46.30
60-80	2172.01	N.A.	19.10
70-80	769.47	N.A.	6.80
80-90	210.31	N.A.	1.80
90-110	3.45	N.A.	0.00
90-120	3.45	N.A.	0.00
90-130	3.45	N.A.	0.00
90-150	3.45	N.A.	0.00
90-180	3.45	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	11399.55	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	383.92
10-20	1097.04
20-30	1659.9
30-40	1993.24
40-50	2049.86
50-60	1829.81
60-70	1402.53
70-80	769.47
80-90	210.31
90-100	3.14
100-110	0.31
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	94	97	94	91	94	91	88	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	80	71	65	88	78	70	64	75	68	63	72	67	62	70	65	61	59
4	82	70	62	55	80	69	61	55	67	59	54	64	58	53	62	57	52	50
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45	43
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	51	45	40	38
7	65	51	43	36	63	51	42	36	49	41	36	48	41	36	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	44	37	32	42	36	32	30
9	56	43	35	29	55	42	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	26	52	39	32	26	38	31	26	37	31	26	36	30	26	24

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UGR TABLE - CORRECTED

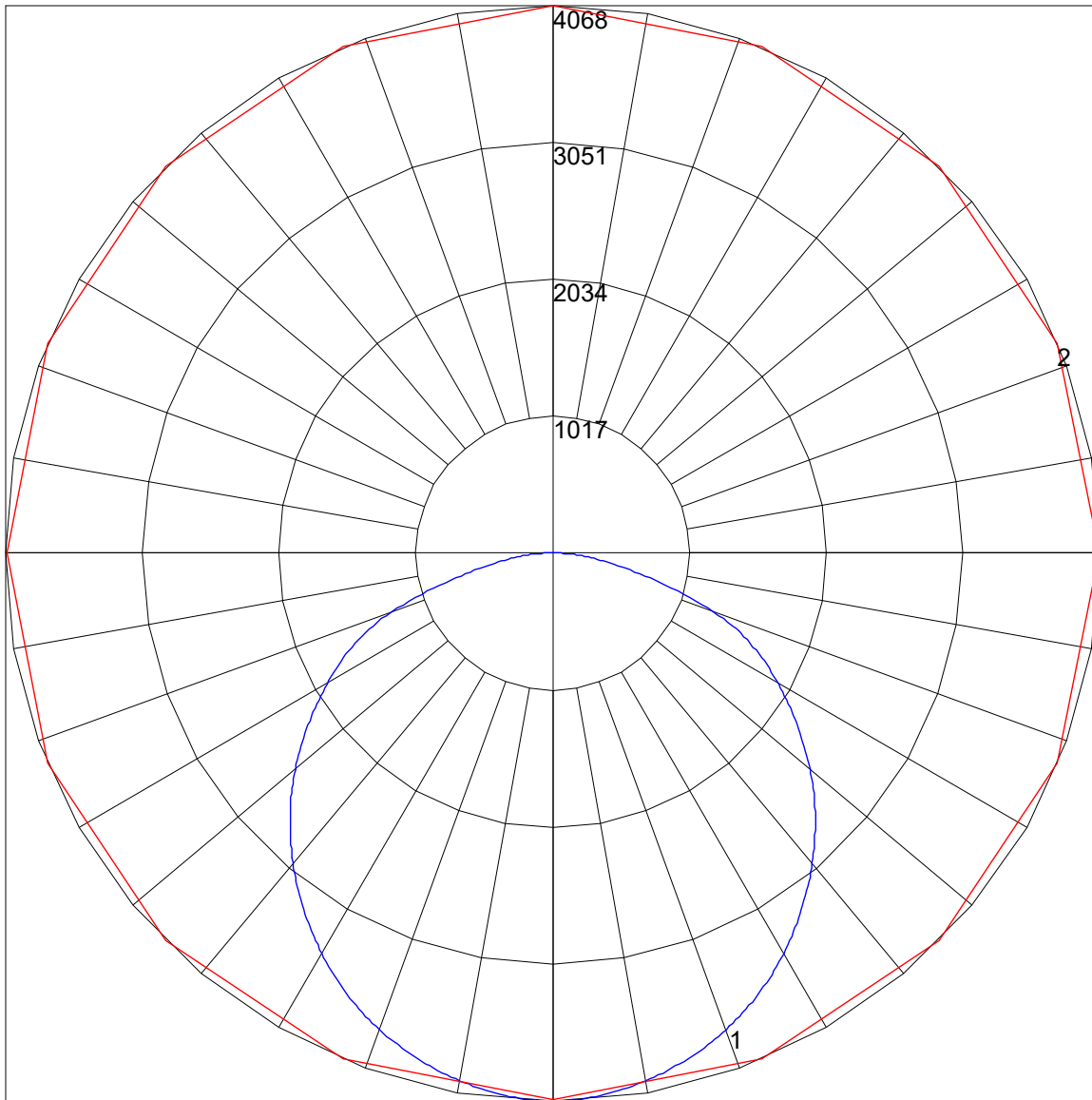
Reflectances

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	21.9	23.5	22.2	23.8	24.1	23.4	25.1	23.8	25.4	25.7
	3H	23.3	24.8	23.7	25.1	25.5	25.5	27.0	25.8	27.3	27.6
	4H	23.8	25.2	24.2	25.6	26.0	26.0	27.4	26.4	27.8	28.1
	6H	24.2	25.5	24.6	25.8	26.2	26.4	27.6	26.8	28.0	28.4
	8H	24.3	25.5	24.7	25.9	26.3	26.4	27.7	26.9	28.1	28.5
	12H	24.3	25.5	24.7	25.9	26.3	26.5	27.7	26.9	28.1	28.5
4H	2H	22.8	24.2	23.2	24.5	24.9	24.0	25.4	24.4	25.7	26.1
	3H	24.5	25.7	24.9	26.1	26.5	26.3	27.4	26.7	27.8	28.2
	4H	25.1	26.2	25.6	26.6	27.1	26.9	28.0	27.4	28.4	28.8
	6H	25.6	26.5	26.1	27.0	27.4	27.4	28.3	27.8	28.8	29.2
	8H	25.7	26.6	26.2	27.0	27.5	27.5	28.4	28.0	28.8	29.3
	12H	25.8	26.6	26.3	27.1	27.5	27.6	28.4	28.1	28.9	29.4
8H	4H	25.7	26.5	26.1	27.0	27.4	27.2	28.1	27.7	28.5	29.0
	6H	26.3	27.0	26.8	27.5	28.0	27.8	28.5	28.3	29.0	29.5
	8H	26.5	27.1	27.0	27.7	28.1	28.0	28.6	28.5	29.1	29.6
	12H	26.6	27.2	27.1	27.7	28.3	28.1	28.7	28.7	29.2	29.8
12H	4H	25.7	26.5	26.2	27.0	27.4	27.2	28.0	27.7	28.5	28.9
	6H	26.4	27.0	26.9	27.5	28.0	27.8	28.5	28.4	28.9	29.5
	8H	26.7	27.2	27.2	27.7	28.3	28.1	28.6	28.6	29.1	29.7

Maximum UGR = 29.8

POLAR GRAPH



Maximum Candela = 4068.138 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.)