



IES INDOOR REPORT

PHOTOMETRIC FILENAME : PBL G2 4W MD HE UV 840.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 MD HE UV 840

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

[MORE] no enclosure.

[LAMP] 896 white LEDs, eight 20103 4000K 3437A1 LED boards with 112 LEDs each.

[BALLAST] Two ULT Everline D28CC95UVPA12-F LED drivers each programmed to 2150mA

[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	36346
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	177
Total Luminaire Watts	205.3
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	27862	27587	27725
55	27104	26974	27291
65	25238	25550	26391
75	21204	23439	18074
85	10834	7254	7989

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	4536.35	N.A.	12.50
0-30	9689.1	N.A.	26.70
0-40	15992.81	N.A.	44.00
0-60	28738.07	N.A.	79.10
0-80	35910.68	N.A.	98.80
0-90	36341.45	N.A.	100.00
10-90	35171.47	N.A.	96.80
20-40	11456.46	N.A.	31.50
20-50	18102.74	N.A.	49.80
40-70	17466.63	N.A.	48.10
60-80	7172.61	N.A.	19.70
70-80	2451.24	N.A.	6.70
80-90	430.78	N.A.	1.20
90-110	4.47	N.A.	0.00
90-120	4.47	N.A.	0.00
90-130	4.47	N.A.	0.00
90-150	4.47	N.A.	0.00
90-180	4.47	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	36345.92	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1169.99
10-20	3366.36
20-30	5152.75
30-40	6303.71
40-50	6646.28
50-60	6098.98
60-70	4721.37
70-80	2451.24
80-90	430.78
90-100	4.45
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

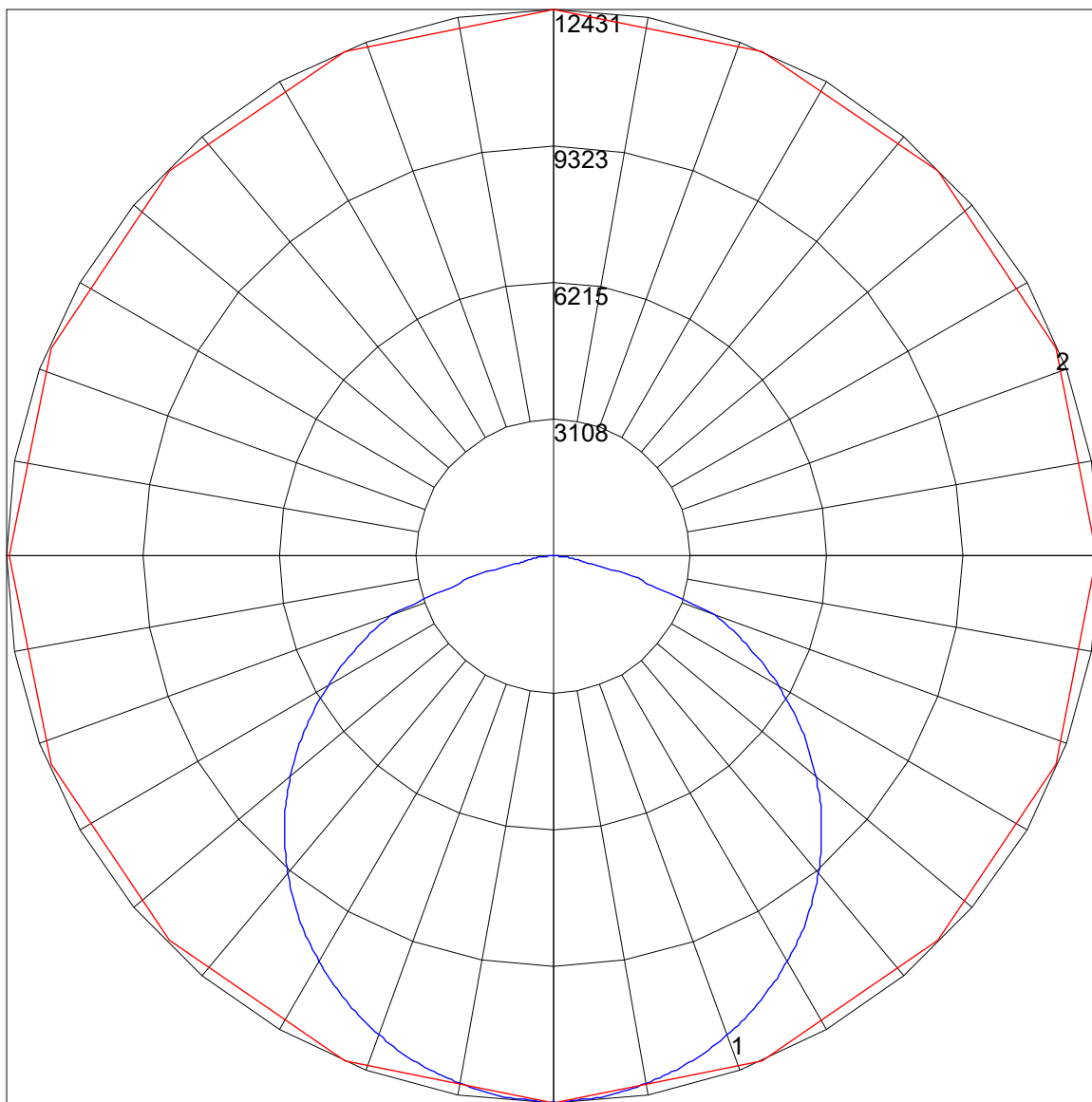
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UGR TABLE - CORRECTED

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	23.7	25.3	24.0	25.6	25.9	23.9	25.5	24.2	25.8	26.1
	3H	25.5	27.0	25.9	27.3	27.7	25.8	27.3	26.2	27.7	28.0
	4H	26.1	27.5	26.5	27.9	28.2	26.2	27.6	26.6	28.0	28.4
	6H	26.5	27.8	26.9	28.2	28.6	26.3	27.7	26.8	28.0	28.4
	8H	26.7	27.9	27.1	28.3	28.7	26.4	27.6	26.8	28.0	28.4
	12H	26.7	27.9	27.1	28.3	28.7	26.4	27.6	26.8	27.9	28.4
4H	2H	24.3	25.7	24.7	26.1	26.5	24.5	25.9	24.9	26.2	26.6
	3H	26.4	27.5	26.8	27.9	28.3	26.7	27.9	27.1	28.3	28.7
	4H	27.1	28.2	27.6	28.6	29.0	27.2	28.3	27.6	28.7	29.1
	6H	27.7	28.6	28.1	29.0	29.5	27.4	28.3	27.8	28.7	29.2
	8H	27.8	28.7	28.3	29.1	29.6	27.4	28.3	27.8	28.7	29.2
	12H	27.9	28.7	28.4	29.1	29.6	27.4	28.2	27.9	28.7	29.1
8H	4H	27.4	28.3	27.9	28.7	29.2	27.5	28.3	27.9	28.8	29.2
	6H	28.1	28.8	28.5	29.3	29.7	27.7	28.4	28.2	28.9	29.4
	8H	28.3	28.9	28.8	29.4	29.9	27.7	28.4	28.2	28.9	29.4
	12H	28.4	28.9	28.9	29.4	30.0	27.8	28.3	28.3	28.8	29.4
12H	4H	27.4	28.2	27.9	28.7	29.1	27.5	28.3	28.0	28.7	29.2
	6H	28.1	28.7	28.6	29.2	29.7	27.7	28.4	28.2	28.8	29.4
	8H	28.3	28.9	28.8	29.4	29.9	27.8	28.3	28.3	28.8	29.4

Maximum UGR = 30.0

POLAR GRAPH



Maximum Candela = 12430.638 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.)