

IES INDOOR REPORT

PHOTOMETRIC FILENAME : PBL G2 2W HI HE UV FR 840.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LLIA001249-002A(s)

[TESTLAB] LightLab International Allentown, LLC

[ISSUE DATE] 3/18/2020

[MANUFAC] Lumen Focus, LLC

[LUMCAT] PBL G2 2W HI HE UV FR 840

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

[MORE] frosted plastic enclosures below LEDs

[LAMP] 448 white LEDs, four 20103 4000K 3437A1 LED boards with 112 LEDs

[MORE] each.

[BALLAST] Two ULT Everline D28CC95UVP12-F LED drivers each programmed at 2100 mA

[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	16710
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	169
Total Luminaire Watts	99
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)	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	22292	23833	24778
55	19415	22815	24492
65	15764	21635	24359
75	11805	20725	19390
85	7296	15041	14741

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	2168.88	N.A.	13.00
0-30	4603.43	N.A.	27.50
0-40	7526.94	N.A.	45.00
0-60	13193.84	N.A.	79.00
0-80	16374.63	N.A.	98.00
0-90	16698.06	N.A.	99.90
10-90	16136.84	N.A.	96.60
20-40	5358.06	N.A.	32.10
20-50	8359.14	N.A.	50.00
40-70	7695.05	N.A.	46.10
60-80	3180.79	N.A.	19.00
70-80	1152.63	N.A.	6.90
80-90	323.43	N.A.	1.90
90-110	11.65	N.A.	0.10
90-120	11.65	N.A.	0.10
90-130	11.65	N.A.	0.10
90-150	11.65	N.A.	0.10
90-180	11.65	N.A.	0.10
110-180	0.00	N.A.	0.00
0-180	16709.71	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	561.22
10-20	1607.67
20-30	2434.55
30-40	2923.51
40-50	3001.08
50-60	2665.82
60-70	2028.16
70-80	1152.63
80-90	323.43
90-100	11.64
100-110	0.01
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	93	91	88	90	88	86	84
2	99	91	84	78	96	89	82	77	85	80	75	82	77	73	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	62	55	80	69	61	54	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

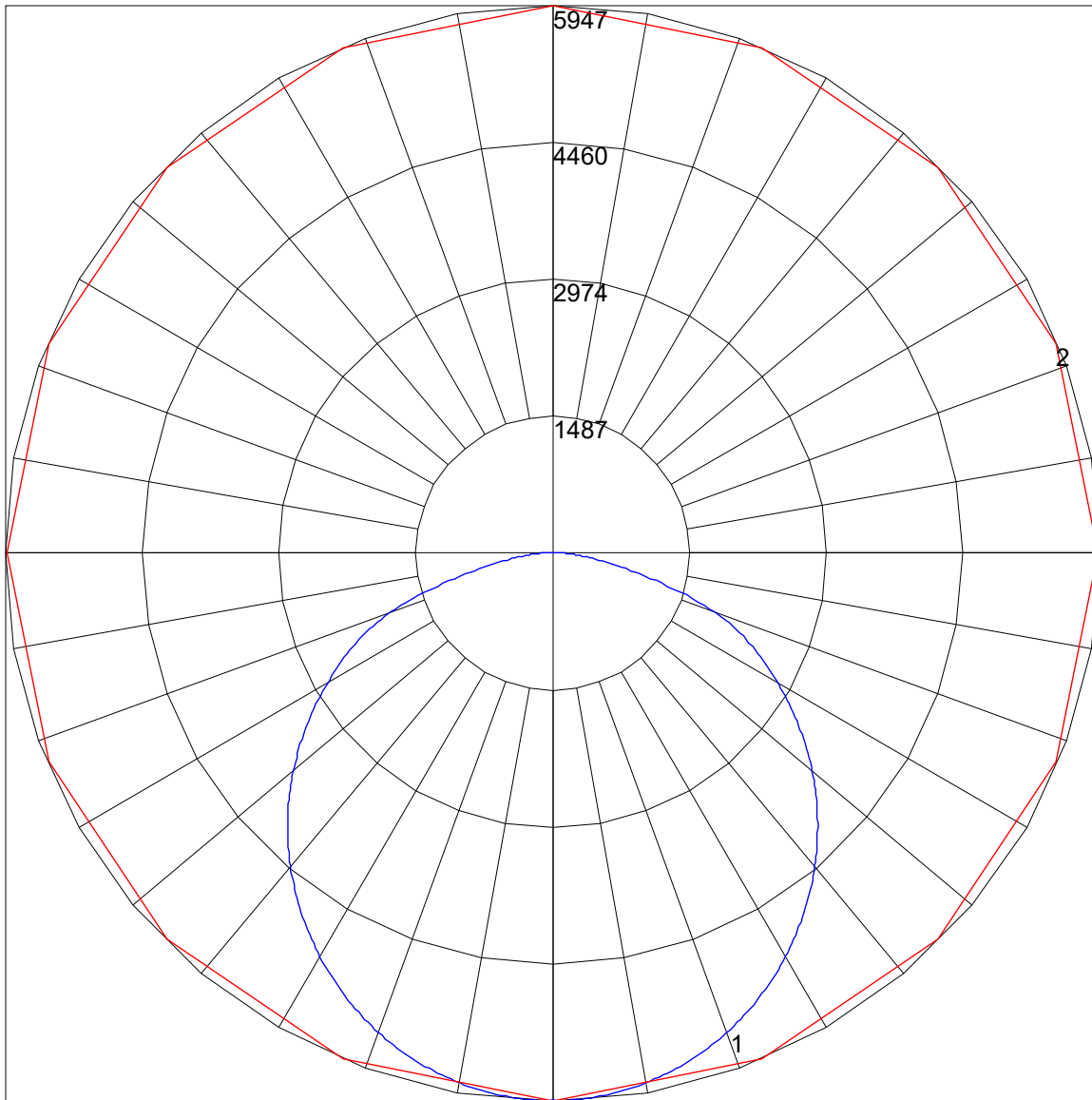
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UGR TABLE - CORRECTED

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	22.1	23.7	22.5	24.0	24.4	23.6	25.2	23.9	25.5	25.8
	3H	23.5	25.0	23.9	25.3	25.7	25.6	27.1	26.0	27.4	27.8
	4H	24.0	25.4	24.4	25.8	26.1	26.3	27.7	26.7	28.0	28.4
	6H	24.4	25.7	24.8	26.0	26.4	26.7	28.0	27.1	28.3	28.7
	8H	24.4	25.7	24.9	26.1	26.5	26.8	28.0	27.2	28.4	28.8
	12H	24.5	25.7	24.9	26.1	26.5	26.8	28.0	27.3	28.4	28.8
4H	2H	23.0	24.4	23.4	24.7	25.1	24.1	25.5	24.5	25.9	26.2
	3H	24.7	25.9	25.1	26.3	26.7	26.5	27.6	26.9	28.0	28.4
	4H	25.3	26.4	25.7	26.8	27.2	27.2	28.3	27.7	28.7	29.1
	6H	25.8	26.7	26.2	27.1	27.6	27.7	28.7	28.2	29.1	29.5
	8H	25.9	26.8	26.4	27.2	27.7	27.9	28.7	28.3	29.2	29.6
	12H	26.0	26.8	26.4	27.2	27.7	28.0	28.8	28.5	29.2	29.7
8H	4H	25.9	26.7	26.3	27.2	27.6	27.5	28.4	28.0	28.8	29.3
	6H	26.5	27.2	27.0	27.7	28.2	28.1	28.8	28.6	29.3	29.8
	8H	26.7	27.3	27.2	27.8	28.3	28.3	29.0	28.8	29.5	30.0
	12H	26.8	27.4	27.3	27.9	28.5	28.5	29.1	29.0	29.6	30.1
12H	4H	25.9	26.7	26.4	27.2	27.6	27.5	28.3	28.0	28.8	29.2
	6H	26.6	27.2	27.1	27.7	28.2	28.2	28.8	28.7	29.3	29.8
	8H	26.9	27.4	27.4	27.9	28.5	28.4	29.0	28.9	29.5	30.0

Maximum UGR = 30.1

POLAR GRAPH



Maximum Candela = 5947.084 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.)