



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : PBL G2 4 MD UV FR 840.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LLIA001249-010A(s)

[TESTLAB] LightLab International Allentown, LLC

[ISSUE DATE] 3/18/2020

[MANUFAC] Lumen Focus, LLC

[LUMCAT] PBL G2 4 MD 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 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	18951
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	162
Total Luminaire Watts	117.3
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)	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	18528	19592	20349
55	16262	18888	20183
65	13305	18158	19677
75	10040	15860	12528
85	6491	11689	9050

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	2473.11	N.A.	13.00
0-30	5249.41	N.A.	27.70
0-40	8588.6	N.A.	45.30
0-60	15098.06	N.A.	79.70
0-80	18629.39	N.A.	98.30
0-90	18948.46	N.A.	100.00
10-90	18308.14	N.A.	96.60
20-40	6115.49	N.A.	32.30
20-50	9553.61	N.A.	50.40
40-70	8835.21	N.A.	46.60
60-80	3531.34	N.A.	18.60
70-80	1205.59	N.A.	6.40
80-90	319.06	N.A.	1.70
90-110	2.77	N.A.	0.00
90-120	2.77	N.A.	0.00
90-130	2.77	N.A.	0.00
90-150	2.77	N.A.	0.00
90-180	2.77	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	18951.23	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	640.32
10-20	1832.79
20-30	2776.3
30-40	3339.19
40-50	3438.12
50-60	3071.34
60-70	2325.75
70-80	1205.59
80-90	319.06
90-100	2.59
100-110	0.18
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	83	77	85	80	76	82	78	74	79	75	72	70
3	90	80	72	65	88	78	71	65	75	69	63	72	67	62	70	65	61	59
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	50
5	76	63	54	48	74	62	54	47	60	52	47	58	51	46	56	50	46	44
6	70	57	48	41	68	56	47	41	54	47	41	52	46	41	51	45	40	38
7	65	52	43	37	63	51	42	36	49	42	36	48	41	36	46	40	36	34
8	61	47	39	33	59	46	38	33	45	38	32	44	37	32	43	36	32	30
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	26	37	31	26	36	31	26	24

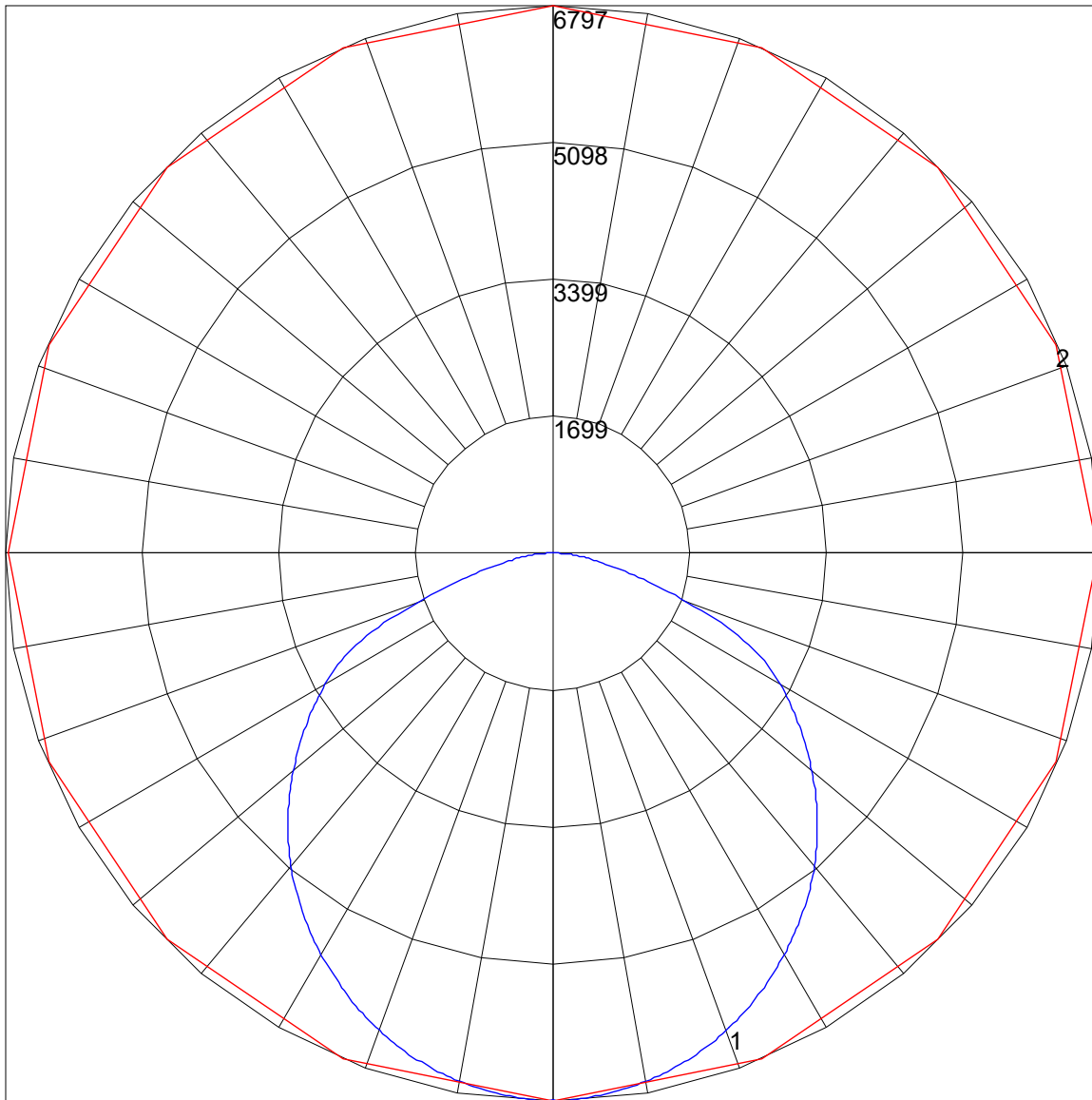
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**UGR TABLE - CORRECTED**

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	21.5	23.1	21.9	23.4	23.8	22.9	24.6	23.3	24.9	25.2
	3H	23.0	24.5	23.4	24.8	25.2	24.7	26.2	25.1	26.5	26.9
	4H	23.5	24.9	23.9	25.2	25.6	25.1	26.5	25.5	26.9	27.2
	6H	23.8	25.1	24.2	25.5	25.9	25.4	26.7	25.8	27.0	27.4
	8H	23.9	25.2	24.4	25.5	25.9	25.5	26.7	25.9	27.1	27.5
	12H	24.0	25.2	24.4	25.5	26.0	25.5	26.7	25.9	27.1	27.5
4H	2H	22.4	23.8	22.8	24.1	24.5	23.5	24.9	23.9	25.2	25.6
	3H	24.1	25.3	24.6	25.7	26.1	25.5	26.7	25.9	27.1	27.5
	4H	24.8	25.8	25.2	26.2	26.7	26.0	27.1	26.5	27.5	27.9
	6H	25.2	26.2	25.7	26.6	27.1	26.4	27.3	26.8	27.7	28.2
	8H	25.4	26.2	25.9	26.7	27.2	26.5	27.4	27.0	27.8	28.3
	12H	25.5	26.2	26.0	26.7	27.2	26.6	27.3	27.1	27.8	28.3
8H	4H	25.2	26.1	25.7	26.5	27.0	26.3	27.2	26.8	27.6	28.1
	6H	25.8	26.5	26.3	27.0	27.5	26.7	27.5	27.2	28.0	28.4
	8H	26.1	26.7	26.6	27.2	27.7	26.9	27.6	27.4	28.1	28.5
	12H	26.2	26.8	26.7	27.3	27.8	27.1	27.6	27.6	28.1	28.7
12H	4H	25.3	26.0	25.7	26.5	27.0	26.3	27.1	26.8	27.6	28.0
	6H	25.9	26.6	26.4	27.0	27.6	26.8	27.5	27.3	27.9	28.5
	8H	26.2	26.8	26.7	27.2	27.8	27.0	27.6	27.5	28.1	28.6

Maximum UGR = 28.7

POLAR GRAPH



Maximum Candela = 6797.339 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.)