



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : PBL G2 2 MD UV FR 835.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 835

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

[MORE] frosted plastic enclosures below LEDs

[LAMP] 224 white LEDs, two 20103 3500K 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	11005
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	154
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	20123	21407	22306
55	17559	20629	22203
65	14327	19783	22398
75	10800	18423	16142
85	6484	13952	12100

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1429.72	N.A.	13.00
0-30	3032.19	N.A.	27.60
0-40	4956.46	N.A.	45.00
0-60	8701.9	N.A.	79.10
0-80	10798.75	N.A.	98.10
0-90	11001.79	N.A.	100.00
10-90	10631.15	N.A.	96.60
20-40	3526.74	N.A.	32.00
20-50	5505.67	N.A.	50.00
40-70	5099.45	N.A.	46.30
60-80	2096.86	N.A.	19.10
70-80	742.85	N.A.	6.80
80-90	203.04	N.A.	1.80
90-110	3.33	N.A.	0.00
90-120	3.33	N.A.	0.00
90-130	3.33	N.A.	0.00
90-150	3.33	N.A.	0.00
90-180	3.33	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	11005.12	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	370.64
10-20	1059.08
20-30	1602.46
30-40	1924.27
40-50	1978.94
50-60	1766.5
60-70	1354.01
70-80	742.85
80-90	203.04
90-100	3.04
100-110	0.30
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	83	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

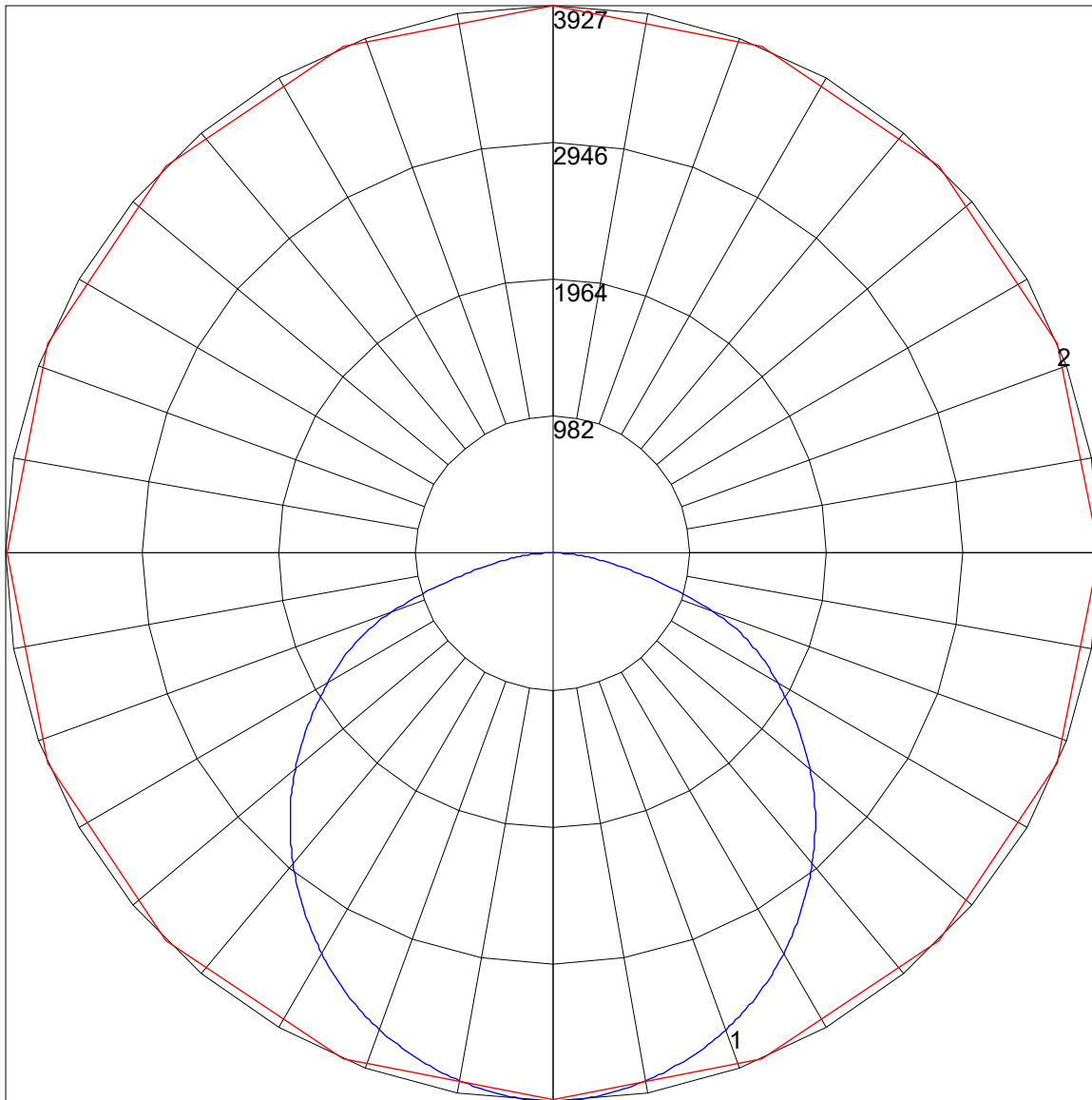
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**UGR TABLE - CORRECTED**

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	21.7	23.3	22.0	23.6	23.9	23.2	24.9	23.6	25.2	25.5
	3H	23.1	24.6	23.5	24.9	25.3	25.3	26.8	25.6	27.1	27.4
	4H	23.6	25.0	24.0	25.4	25.8	25.8	27.2	26.2	27.6	27.9
	6H	24.0	25.3	24.4	25.6	26.0	26.2	27.4	26.6	27.8	28.2
	8H	24.1	25.3	24.5	25.7	26.1	26.2	27.5	26.7	27.9	28.3
	12H	24.1	25.3	24.5	25.7	26.1	26.3	27.5	26.7	27.9	28.3
4H	2H	22.6	24.0	23.0	24.3	24.7	23.8	25.2	24.2	25.5	25.9
	3H	24.3	25.5	24.7	25.9	26.3	26.1	27.2	26.5	27.6	28.0
	4H	24.9	26.0	25.4	26.4	26.9	26.7	27.8	27.2	28.2	28.6
	6H	25.4	26.3	25.9	26.8	27.2	27.2	28.1	27.6	28.6	29.0
	8H	25.5	26.4	26.0	26.8	27.3	27.3	28.2	27.8	28.6	29.1
	12H	25.6	26.4	26.1	26.9	27.3	27.4	28.2	27.9	28.7	29.2
8H	4H	25.5	26.3	25.9	26.8	27.2	27.0	27.9	27.5	28.3	28.8
	6H	26.1	26.8	26.6	27.3	27.8	27.6	28.3	28.1	28.8	29.3
	8H	26.3	26.9	26.8	27.5	27.9	27.8	28.4	28.3	28.9	29.4
	12H	26.4	27.0	26.9	27.5	28.1	27.9	28.5	28.5	29.0	29.6
12H	4H	25.5	26.3	26.0	26.8	27.2	27.0	27.8	27.5	28.3	28.7
	6H	26.2	26.8	26.7	27.3	27.8	27.6	28.3	28.2	28.7	29.3
	8H	26.5	27.0	27.0	27.5	28.1	27.9	28.4	28.4	28.9	29.5

Maximum UGR = 29.6

POLAR GRAPH



Maximum Candela = 3927.381 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.)