



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : PBL G2 2W HI UV FR 835.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LLIA001249-002A

[TESTLAB] LightLab International Allentown, LLC

[ISSUE DATE] 3/18/2020

[MANUFAC] Lumen Focus, LLC

[LUMCAT] PBL G2 2W HI UV FR 835

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

[MORE] frosted plastic enclosures below LEDs

[LAMP] 336 white LEDs, three 20103 3500K 3437A1 LED boards with 112 LEDs

[MORE] each.

[BALLAST] Two ULT Everline D28CC95UVP12-F LED drivers each programmed at 2150 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	16224
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	156
Total Luminaire Watts	103.7
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	21644	23140	24057
55	18850	22151	23779
65	15305	21006	23651
75	11462	20123	18826
85	7084	14603	14313

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	2105.81	N.A.	13.00
0-30	4469.55	N.A.	27.50
0-40	7308.04	N.A.	45.00
0-60	12810.13	N.A.	79.00
0-80	15898.41	N.A.	98.00
0-90	16212.44	N.A.	99.90
10-90	15667.55	N.A.	96.60
20-40	5202.24	N.A.	32.10
20-50	8116.03	N.A.	50.00
40-70	7471.26	N.A.	46.10
60-80	3088.28	N.A.	19.00
70-80	1119.11	N.A.	6.90
80-90	314.03	N.A.	1.90
90-110	11.31	N.A.	0.10
90-120	11.31	N.A.	0.10
90-130	11.31	N.A.	0.10
90-150	11.31	N.A.	0.10
90-180	11.31	N.A.	0.10
110-180	0.00	N.A.	0.00
0-180	16223.75	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	544.89
10-20	1560.91
20-30	2363.74
30-40	2838.49
40-50	2913.8
50-60	2588.29
60-70	1969.18
70-80	1119.11
80-90	314.03
90-100	11.30
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

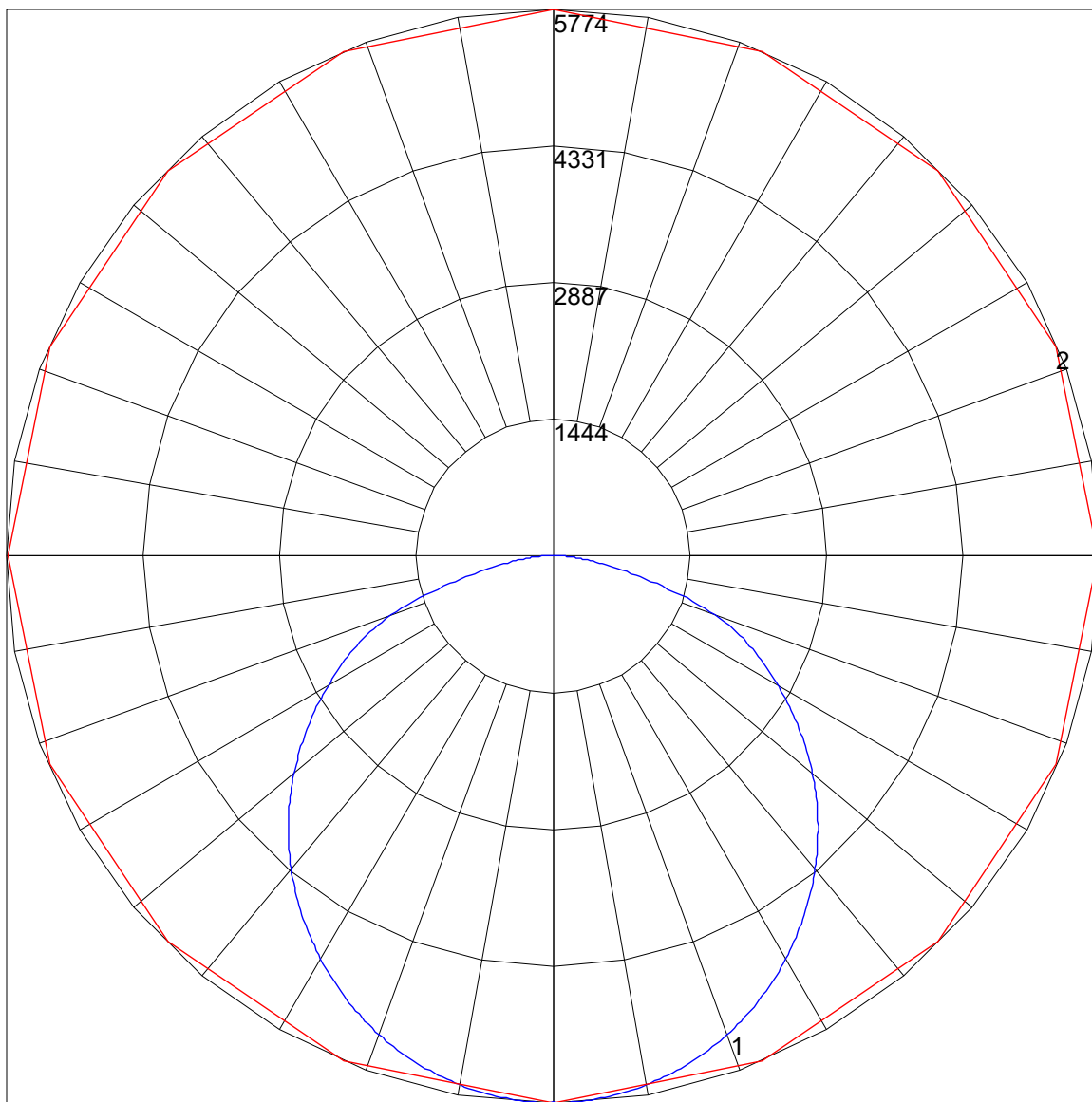
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**UGR TABLE - CORRECTED**

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	22.0	23.6	22.4	23.9	24.3	23.5	25.1	23.8	25.4	25.7
	3H	23.4	24.9	23.8	25.2	25.6	25.5	27.0	25.9	27.3	27.7
	4H	23.9	25.3	24.3	25.7	26.0	26.2	27.6	26.6	27.9	28.3
	6H	24.3	25.6	24.7	25.9	26.3	26.6	27.9	27.0	28.2	28.6
	8H	24.3	25.6	24.8	26.0	26.4	26.7	27.9	27.1	28.3	28.7
	12H	24.4	25.6	24.8	26.0	26.4	26.7	27.9	27.2	28.3	28.7
4H	2H	22.9	24.3	23.3	24.6	25.0	24.0	25.4	24.4	25.8	26.1
	3H	24.6	25.8	25.0	26.2	26.6	26.4	27.5	26.8	27.9	28.3
	4H	25.2	26.3	25.6	26.7	27.1	27.1	28.2	27.6	28.6	29.0
	6H	25.7	26.6	26.1	27.0	27.5	27.6	28.6	28.1	29.0	29.4
	8H	25.8	26.7	26.3	27.1	27.6	27.8	28.6	28.2	29.1	29.5
	12H	25.9	26.7	26.3	27.1	27.6	27.9	28.7	28.4	29.1	29.6
8H	4H	25.8	26.6	26.2	27.1	27.5	27.4	28.3	27.9	28.7	29.2
	6H	26.4	27.1	26.9	27.6	28.1	28.0	28.7	28.5	29.2	29.7
	8H	26.6	27.2	27.1	27.7	28.2	28.2	28.9	28.7	29.4	29.9
	12H	26.7	27.3	27.2	27.8	28.4	28.4	29.0	28.9	29.5	30.0
12H	4H	25.8	26.6	26.3	27.1	27.5	27.4	28.2	27.9	28.7	29.1
	6H	26.5	27.1	27.0	27.6	28.1	28.1	28.7	28.6	29.2	29.7
	8H	26.8	27.3	27.3	27.8	28.4	28.3	28.9	28.8	29.4	29.9

Maximum UGR = 30.0

POLAR GRAPH



Maximum Candela = 5774.129 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.)