



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : PBL G2 2W VH 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 VH UV FR 835

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

[MORE] frosted plastic enclosures below LEDs

[LAMP] 448 white LEDs, four 20103 3500K 3437A1 LED boards with 112 LEDs

[MORE] each.

[BALLAST] Two ULT Everline D15CC55UNVPW-C LED drivers each programmed at 1200 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	18295
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	156
Total Luminaire Watts	117.3
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)	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	24408	26094	27129
55	21257	24980	26816
65	17260	23689	26671
75	12926	22692	21230
85	7988	16468	16140

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	2374.72	N.A.	13.00
0-30	5040.3	N.A.	27.50
0-40	8241.26	N.A.	45.00
0-60	14445.95	N.A.	79.00
0-80	17928.6	N.A.	98.00
0-90	18282.73	N.A.	99.90
10-90	17668.25	N.A.	96.60
20-40	5866.55	N.A.	32.10
20-50	9152.43	N.A.	50.00
40-70	8425.32	N.A.	46.10
60-80	3482.65	N.A.	19.00
70-80	1262.01	N.A.	6.90
80-90	354.13	N.A.	1.90
90-110	12.75	N.A.	0.10
90-120	12.75	N.A.	0.10
90-130	12.75	N.A.	0.10
90-150	12.75	N.A.	0.10
90-180	12.75	N.A.	0.10
110-180	0.00	N.A.	0.00
0-180	18295.48	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	614.48
10-20	1760.24
20-30	2665.59
30-40	3200.96
40-50	3285.88
50-60	2918.81
60-70	2220.63
70-80	1262.01
80-90	354.13
90-100	12.74
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

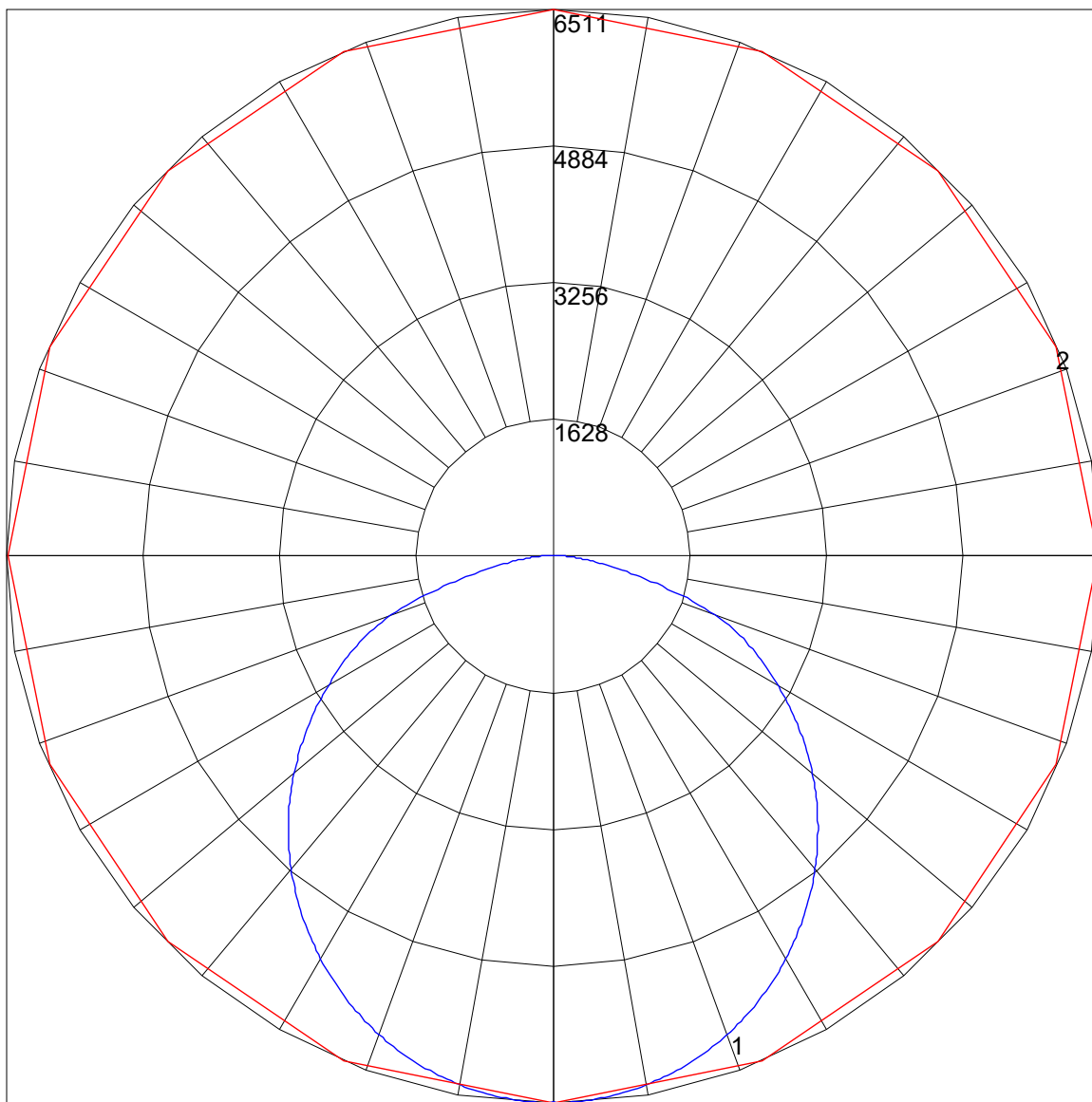
Room Size      UGR Viewed Crosswise

UGR Viewed Endwise

X=2H	Y=2H	22.4	24.0	22.8	24.3	24.7	23.9	25.5	24.2	25.8	26.1
	3H	23.8	25.3	24.2	25.6	26.0	25.9	27.4	26.3	27.7	28.1
	4H	24.3	25.7	24.7	26.1	26.4	26.6	28.0	27.0	28.3	28.7
	6H	24.7	26.0	25.1	26.3	26.7	27.0	28.3	27.4	28.6	29.0
	8H	24.7	26.0	25.2	26.4	26.8	27.1	28.3	27.5	28.7	29.1
	12H	24.8	26.0	25.2	26.4	26.8	27.1	28.3	27.6	28.7	29.1
4H	2H	23.3	24.7	23.7	25.0	25.4	24.4	25.8	24.8	26.2	26.5
	3H	25.0	26.2	25.4	26.6	27.0	26.8	27.9	27.2	28.3	28.7
	4H	25.6	26.7	26.0	27.1	27.5	27.5	28.6	28.0	29.0	29.4
	6H	26.1	27.0	26.5	27.4	27.9	28.0	29.0	28.5	29.4	29.8
	8H	26.2	27.1	26.7	27.5	28.0	28.2	29.0	28.6	29.5	29.9
	12H	26.3	27.1	26.7	27.5	28.0	28.3	29.1	28.8	29.5	30.0
8H	4H	26.2	27.0	26.6	27.5	27.9	27.8	28.7	28.3	29.1	29.6
	6H	26.8	27.5	27.3	28.0	28.5	28.4	29.1	28.9	29.6	30.1
	8H	27.0	27.6	27.5	28.1	28.6	28.6	29.3	29.1	29.8	30.3
	12H	27.1	27.7	27.6	28.2	28.8	28.8	29.4	29.3	29.9	30.4
12H	4H	26.2	27.0	26.7	27.5	27.9	27.8	28.6	28.3	29.1	29.5
	6H	26.9	27.5	27.4	28.0	28.5	28.5	29.1	29.0	29.6	30.1
	8H	27.2	27.7	27.7	28.2	28.8	28.7	29.3	29.2	29.8	30.3

Maximum UGR = 30.4

POLAR GRAPH



Maximum Candela = 6511.471 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.)