



IES INDOOR REPORT

PHOTOMETRIC FILENAME : PBL G2 2W VH UV 840.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LLIA001249-003(s)

[TESTLAB] LightLab International Allentown, LLC

[ISSUE DATE] 3/18/2020

[MANUFAC] Lumen Focus, LLC

[LUMCAT] PBL G2 2W VH UV 840

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

[MORE] no enclosure.

[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 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	20159
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	172
Total Luminaire Watts	117.3
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.30
Spacing Criterion (90-270)	1.28
Spacing Criterion (Diagonal)	1.42
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	29359	29144	29139
55	28499	28486	28640
65	25925	26748	27517
75	20952	23580	19967
85	8440	8143	9331

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	2518.63	N.A.	12.50
0-30	5380.57	N.A.	26.70
0-40	8883.99	N.A.	44.10
0-60	15970.12	N.A.	79.20
0-80	19915.31	N.A.	98.80
0-90	20155.23	N.A.	100.00
10-90	19505.86	N.A.	96.80
20-40	6365.35	N.A.	31.60
20-50	10063.73	N.A.	49.90
40-70	9680.86	N.A.	48.00
60-80	3945.19	N.A.	19.60
70-80	1350.47	N.A.	6.70
80-90	239.92	N.A.	1.20
90-110	3.38	N.A.	0.00
90-120	3.38	N.A.	0.00
90-130	3.38	N.A.	0.00
90-150	3.38	N.A.	0.00
90-180	3.38	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	20158.61	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	649.37
10-20	1869.26
20-30	2861.94
30-40	3503.42
40-50	3698.38
50-60	3387.75
60-70	2594.72
70-80	1350.47
80-90	239.92
90-100	3.21
100-110	0.16
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	95	92	94	91	89	90	88	86	84
2	99	91	84	78	96	89	83	77	85	80	75	82	78	74	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	61	55	80	69	61	54	66	59	54	64	58	53	62	57	52	50
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	37
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33
8	60	46	38	32	59	46	38	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	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

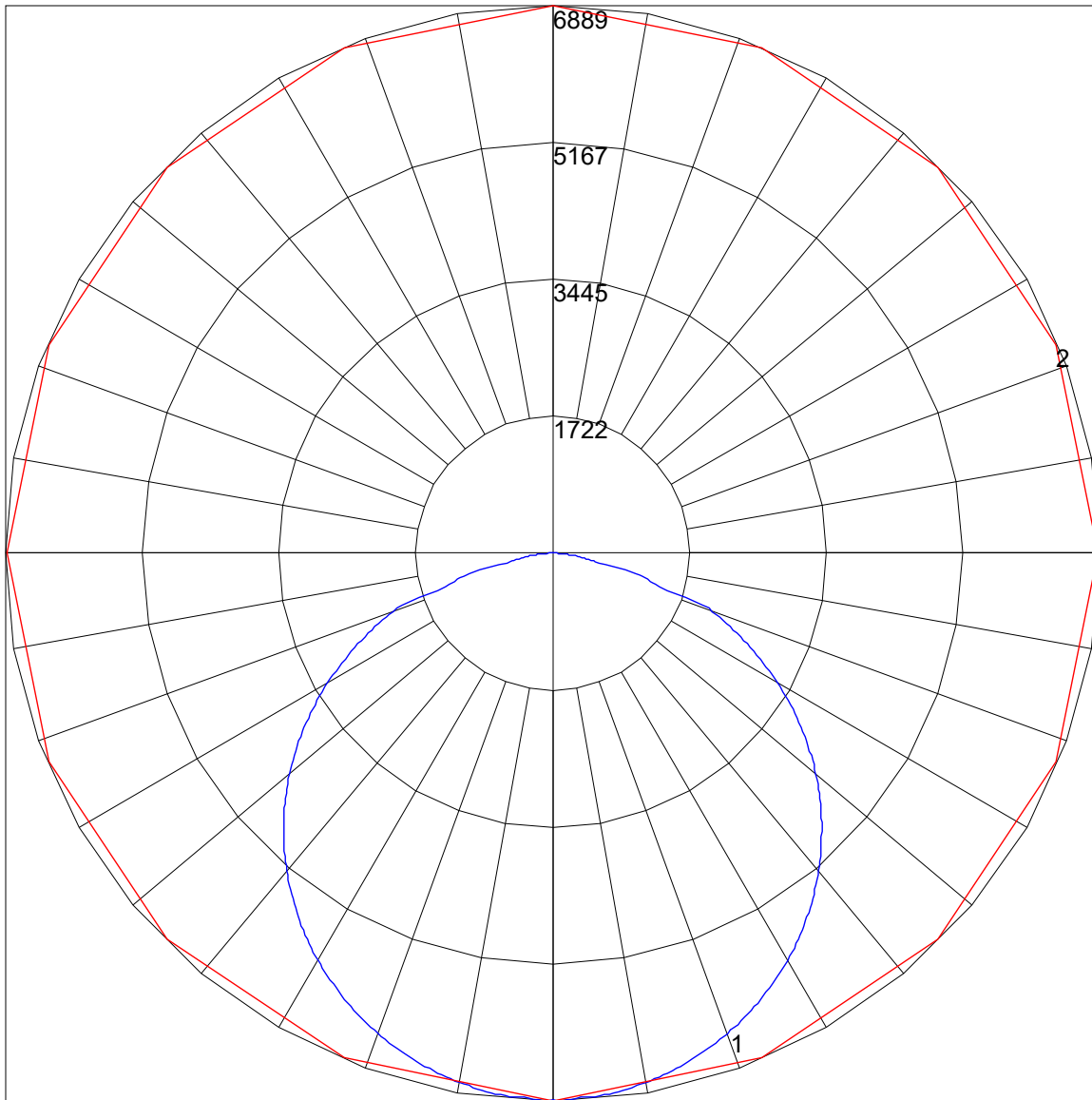
X=2H	Y=2H	23.8	25.5	24.2	25.8	26.1	24.0	25.6	24.3	25.9	26.2
	3H	25.5	27.0	25.9	27.4	27.7	25.9	27.4	26.3	27.7	28.1
	4H	26.1	27.5	26.5	27.9	28.3	26.4	27.8	26.8	28.1	28.5
	6H	26.5	27.8	26.9	28.2	28.5	26.5	27.8	26.9	28.2	28.6
	8H	26.6	27.8	27.0	28.2	28.6	26.6	27.8	27.0	28.2	28.6
	12H	26.6	27.8	27.0	28.2	28.6	26.6	27.8	27.0	28.2	28.6

UGR Viewed Endwise

4H	2H	24.5	25.9	24.9	26.2	26.6	24.6	26.0	25.0	26.4	26.7
	3H	26.4	27.6	26.8	28.0	28.4	26.8	28.0	27.2	28.4	28.8
	4H	27.1	28.2	27.6	28.6	29.0	27.3	28.4	27.8	28.8	29.2
	6H	27.6	28.5	28.0	29.0	29.4	27.6	28.5	28.0	29.0	29.4
	8H	27.7	28.6	28.2	29.0	29.5	27.6	28.5	28.1	28.9	29.4
	12H	27.7	28.5	28.2	29.0	29.5	27.7	28.4	28.1	28.9	29.4
8H	4H	27.4	28.3	27.9	28.7	29.2	27.6	28.5	28.0	28.9	29.4
	6H	28.0	28.7	28.5	29.2	29.7	27.9	28.6	28.4	29.1	29.6
	8H	28.1	28.8	28.7	29.3	29.8	28.0	28.6	28.5	29.1	29.6
	12H	28.2	28.8	28.7	29.3	29.8	28.0	28.6	28.5	29.1	29.7
12H	4H	27.4	28.2	27.9	28.7	29.1	27.6	28.4	28.1	28.9	29.3
	6H	28.0	28.6	28.5	29.1	29.6	27.9	28.6	28.4	29.0	29.6
	8H	28.2	28.8	28.7	29.2	29.8	28.0	28.6	28.5	29.1	29.6

Maximum UGR = 29.8

POLAR GRAPH



Maximum Candela = 6889.429 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.)