

IES INDOOR REPORT

PHOTOMETRIC FILENAME : PBL G2 4W HI HE UV FR 850.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LLIA001249-017(s)

[TESTLAB] LightLab International Allentown, LLC

[ISSUE DATE] 3/24/2020

[MANUFAC] Lumen Focus, LLC

[LUMCAT] PBL G2 4W HI HE UV FR 850

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

[MORE] frosted plastic enclosures below LEDs.

[LAMP] 896 white LEDs, eight 20103 5000K 3437A1 LED boards with 112 LEDs each.

[BALLAST] Four ULT Everline D15CC55UNVPW-C LED drivers each programmed to 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	37902
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	162
Total Luminaire Watts	234.5
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)	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	26595	28287	29457
55	23239	27166	29245
65	18897	26065	29367
75	14210	25773	24369
85	9357	19815	18243

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	4882.87	N.A.	12.90
0-30	10364.69	N.A.	27.30
0-40	16950.31	N.A.	44.70
0-60	29749.25	N.A.	78.50
0-80	37078.77	N.A.	97.80
0-90	37878.12	N.A.	99.90
10-90	36614.39	N.A.	96.60
20-40	12067.45	N.A.	31.80
20-50	18833.47	N.A.	49.70
40-70	17426.46	N.A.	46.00
60-80	7329.52	N.A.	19.30
70-80	2702.00	N.A.	7.10
80-90	799.36	N.A.	2.10
90-110	24.18	N.A.	0.10
90-120	24.18	N.A.	0.10
90-130	24.18	N.A.	0.10
90-150	24.18	N.A.	0.10
90-180	24.18	N.A.	0.10
110-180	0.00	N.A.	0.00
0-180	37902.3	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1263.73
10-20	3619.13
20-30	5481.82
30-40	6585.63
40-50	6766.02
50-60	6032.91
60-70	4627.52
70-80	2702.00
80-90	799.35
90-100	24.06
100-110	0.12
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	99	95	106	101	98	94	97	94	91	93	91	88	90	87	85	83
2	99	90	83	78	96	88	82	77	85	79	75	82	77	73	78	75	72	69
3	90	79	71	64	87	78	70	64	75	68	63	72	66	62	69	65	61	58
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	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	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24

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UGR TABLE - CORRECTED

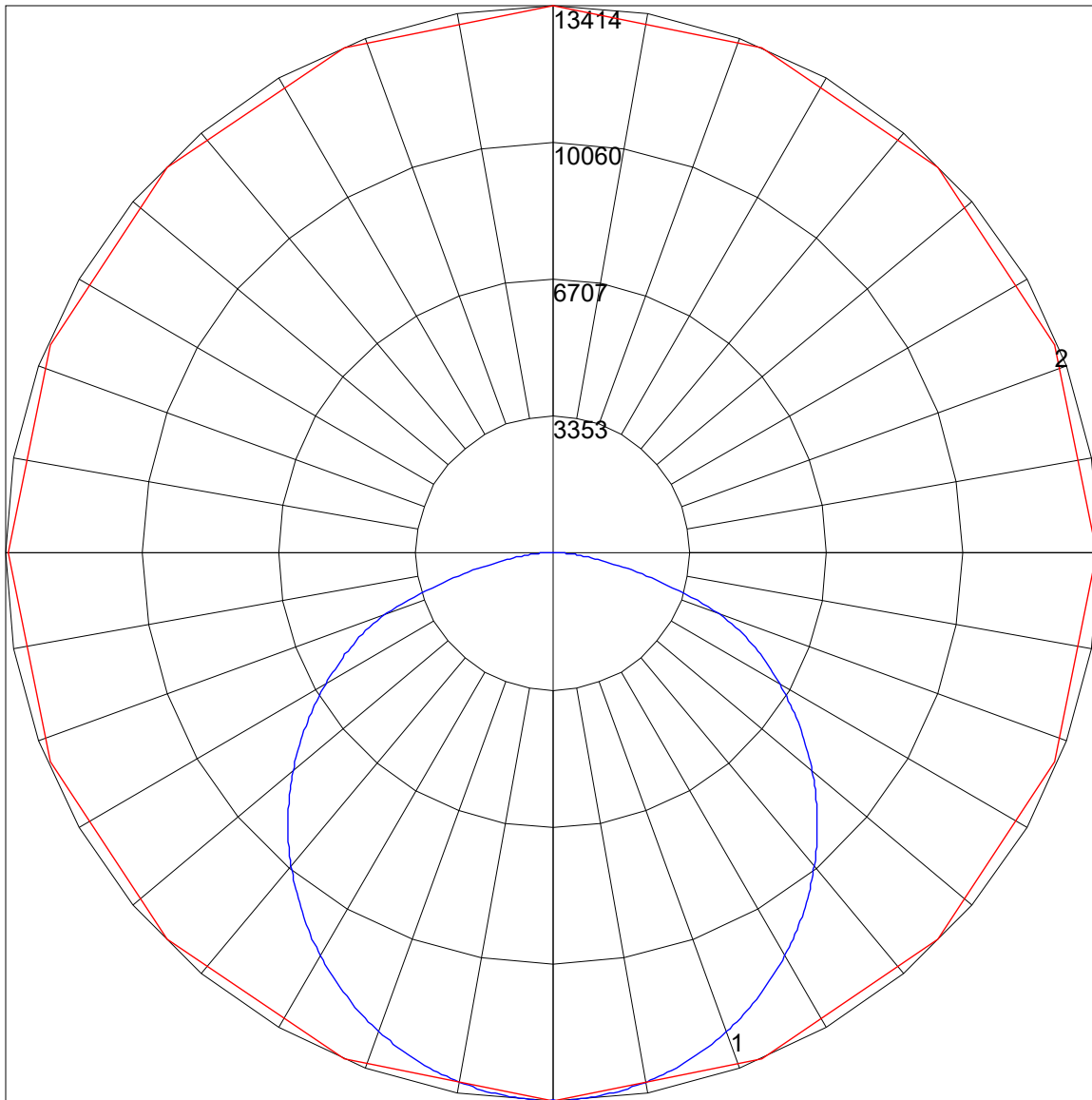
Reflectances

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	22.6	24.3	23.0	24.6	24.9	24.1	25.8	24.5	26.1	26.4
	3H	24.1	25.6	24.5	25.9	26.3	26.3	27.7	26.6	28.1	28.4
	4H	24.6	26.0	25.0	26.4	26.7	26.9	28.3	27.3	28.7	29.1
	6H	24.9	26.3	25.4	26.6	27.0	27.4	28.7	27.8	29.0	29.4
	8H	25.0	26.3	25.5	26.7	27.1	27.5	28.7	27.9	29.1	29.5
	12H	25.1	26.3	25.5	26.7	27.1	27.6	28.8	28.0	29.1	29.6
4H	2H	23.6	25.0	24.0	25.3	25.7	24.7	26.1	25.1	26.4	26.8
	3H	25.3	26.5	25.7	26.9	27.3	27.1	28.3	27.5	28.7	29.1
	4H	25.9	27.0	26.3	27.4	27.8	27.9	29.0	28.3	29.4	29.8
	6H	26.4	27.3	26.9	27.8	28.2	28.5	29.4	28.9	29.8	30.3
	8H	26.6	27.4	27.0	27.9	28.3	28.6	29.5	29.1	29.9	30.4
	12H	26.6	27.4	27.1	27.9	28.4	28.7	29.5	29.2	30.0	30.5
8H	4H	26.5	27.4	27.0	27.8	28.3	28.2	29.1	28.7	29.5	30.0
	6H	27.2	27.9	27.7	28.4	28.9	28.9	29.6	29.4	30.1	30.6
	8H	27.4	28.1	27.9	28.6	29.1	29.1	29.8	29.6	30.3	30.8
	12H	27.6	28.2	28.1	28.7	29.2	29.3	29.9	29.8	30.4	30.9
12H	4H	26.6	27.4	27.1	27.9	28.3	28.2	29.0	28.7	29.5	29.9
	6H	27.3	28.0	27.8	28.4	29.0	28.9	29.6	29.5	30.1	30.6
	8H	27.6	28.2	28.1	28.7	29.2	29.2	29.8	29.7	30.3	30.9

Maximum UGR = 30.9

POLAR GRAPH



Maximum Candela = 13413.948 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.)