



IES INDOOR REPORT

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

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LLIA001249-022(s)

[TESTLAB] LightLab International Allentown, LLC

[ISSUEDATE] 3/30/2020

[MANUFAC] Lumen Focus, LLC

[LUMCAT] PBL G2 4W VH 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

[MORE] each.

[BALLAST] Four ULT Everline D21CC80UNVPW-C LED drivers each programmed at

[MORE] 1630mA

[OTHER] 120.0Vac, 60.00Hz, 2.668A, 319.5W, 0.998PF, 5.5%THD(i)

[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	50649
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	159
Total Luminaire Watts	319.5
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)	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	35687	38077	39672
55	31217	36518	39235
65	25429	34816	38919
75	19150	33278	29827
85	12592	23998	22731

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	6556.57	N.A.	12.90
0-30	13925.55	N.A.	27.50
0-40	22783.8	N.A.	45.00
0-60	39992.62	N.A.	79.00
0-80	49640.64	N.A.	98.00
0-90	50618.98	N.A.	99.90
10-90	48923.22	N.A.	96.60
20-40	16227.23	N.A.	32.00
20-50	25330.64	N.A.	50.00
40-70	23383.32	N.A.	46.20
60-80	9648.01	N.A.	19.00
70-80	3473.51	N.A.	6.90
80-90	978.35	N.A.	1.90
90-110	30.21	N.A.	0.10
90-120	30.21	N.A.	0.10
90-130	30.21	N.A.	0.10
90-150	30.21	N.A.	0.10
90-180	30.21	N.A.	0.10
110-180	0.00	N.A.	0.00
0-180	50649.19	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1695.76
10-20	4860.81
20-30	7368.97
30-40	8858.25
40-50	9103.41
50-60	8105.41
60-70	6174.49
70-80	3473.51
80-90	978.35
90-100	30.21
100-110	0.00
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	34	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

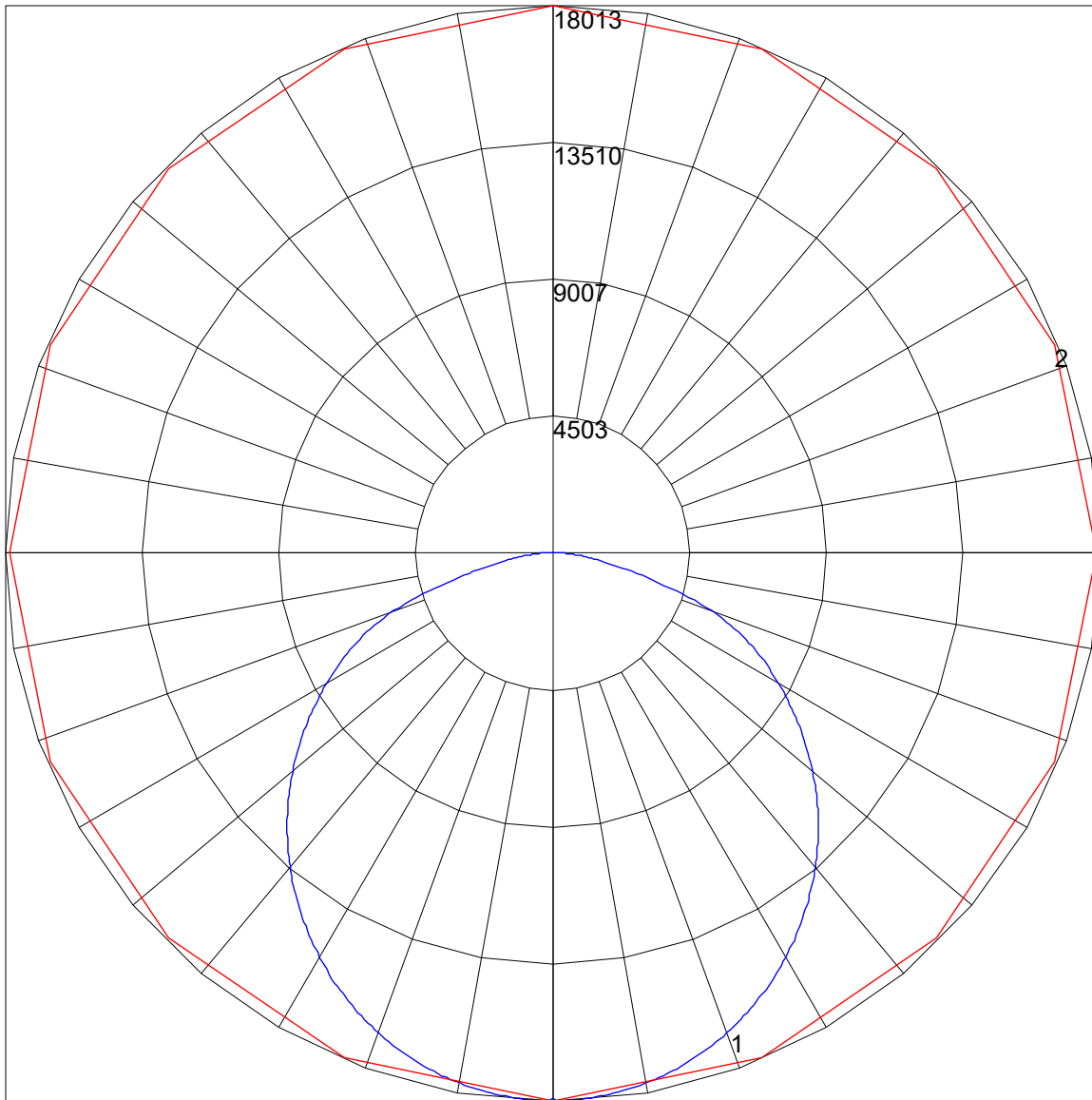
Reflectances

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	23.7	25.4	24.1	25.7	26.0	25.2	26.8	25.5	27.1	27.4
	3H	25.2	26.7	25.5	27.0	27.3	27.2	28.7	27.6	29.0	29.4
	4H	25.7	27.1	26.1	27.4	27.8	27.8	29.2	28.2	29.5	29.9
	6H	26.0	27.3	26.4	27.7	28.1	28.2	29.4	28.6	29.8	30.2
	8H	26.1	27.3	26.5	27.7	28.1	28.2	29.5	28.7	29.9	30.3
	12H	26.2	27.3	26.6	27.7	28.2	28.3	29.5	28.8	29.9	30.3
4H	2H	24.6	26.0	25.0	26.4	26.7	25.7	27.1	26.1	27.5	27.8
	3H	26.3	27.5	26.8	27.9	28.3	28.0	29.2	28.4	29.6	30.0
	4H	27.0	28.0	27.4	28.4	28.9	28.7	29.8	29.2	30.2	30.6
	6H	27.4	28.4	27.9	28.8	29.3	29.2	30.1	29.7	30.6	31.0
	8H	27.6	28.4	28.0	28.9	29.4	29.3	30.2	29.8	30.6	31.1
	12H	27.7	28.4	28.1	28.9	29.4	29.4	30.2	29.9	30.7	31.2
8H	4H	27.5	28.4	28.0	28.8	29.3	29.0	29.9	29.5	30.3	30.8
	6H	28.1	28.9	28.6	29.3	29.8	29.6	30.3	30.1	30.8	31.3
	8H	28.4	29.0	28.9	29.5	30.0	29.8	30.4	30.3	31.0	31.4
	12H	28.5	29.1	29.0	29.6	30.2	30.0	30.6	30.5	31.0	31.6
12H	4H	27.5	28.3	28.0	28.8	29.3	29.0	29.8	29.5	30.3	30.8
	6H	28.2	28.9	28.7	29.4	29.9	29.6	30.3	30.2	30.8	31.3
	8H	28.5	29.1	29.0	29.6	30.2	29.9	30.5	30.4	31.0	31.5

Maximum UGR = 31.6

POLAR GRAPH



Maximum Candela = 18013.258 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.)