



IES INDOOR REPORT

PHOTOMETRIC FILENAME : PBL G2 2W SH UV FR 840.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LLIA001249-002A(s)

[TESTLAB] LightLab International Allentown, LLC

[ISSUEDATE] 3/18/2020

[MANUFAC] Lumen Focus, LLC

[LUMCAT] PBL G2 2W SH UV FR 840

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

[MORE] frosted plastic enclosures below LEDs

[LAMP] 448 white LEDs, four 20103 4000K 3437A1 LED boards with 112 LEDs

[MORE] each.

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

[MORE] 1460mA

[OTHER] 120.0Vac, 60.00Hz, 1.189A, 142.3W, 0.997PF, 5.9%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	22832
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	161
Total Luminaire Watts	142.25
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	30461	32565	33857
55	26529	31174	33466
65	21540	29563	33285
75	16131	28320	26495
85	9969	20552	20143

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	2963.59	N.A.	13.00
0-30	6290.18	N.A.	27.50
0-40	10284.91	N.A.	45.00
0-60	18028.21	N.A.	79.00
0-80	22374.48	N.A.	98.00
0-90	22816.42	N.A.	99.90
10-90	22049.57	N.A.	96.60
20-40	7321.32	N.A.	32.10
20-50	11422.02	N.A.	50.00
40-70	10514.61	N.A.	46.10
60-80	4346.26	N.A.	19.00
70-80	1574.96	N.A.	6.90
80-90	441.94	N.A.	1.90
90-110	15.92	N.A.	0.10
90-120	15.92	N.A.	0.10
90-130	15.92	N.A.	0.10
90-150	15.92	N.A.	0.10
90-180	15.92	N.A.	0.10
110-180	0.00	N.A.	0.00
0-180	22832.34	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	766.85
10-20	2196.74
20-30	3326.59
30-40	3994.72
40-50	4100.7
50-60	3642.6
60-70	2771.3
70-80	1574.96
80-90	441.94
90-100	15.90
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

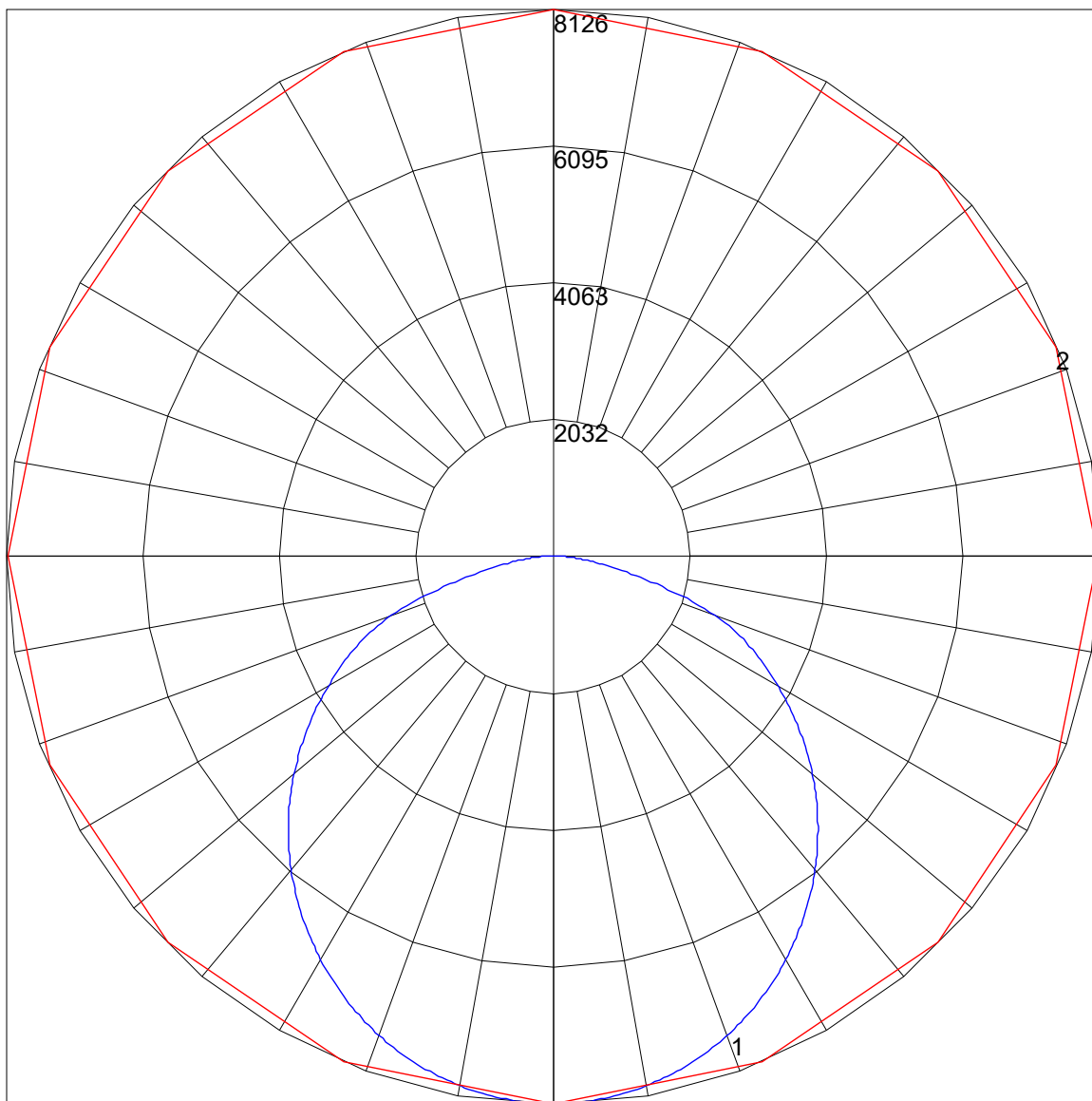
Reflectances

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	23.2	24.8	23.6	25.1	25.5	24.7	26.3	25.0	26.6	26.9
	3H	24.6	26.1	25.0	26.4	26.8	26.7	28.2	27.1	28.5	28.9
	4H	25.1	26.5	25.5	26.9	27.2	27.4	28.8	27.8	29.1	29.5
	6H	25.5	26.8	25.9	27.1	27.5	27.8	29.1	28.2	29.4	29.8
	8H	25.5	26.8	26.0	27.2	27.6	27.9	29.1	28.3	29.5	29.9
	12H	25.6	26.8	26.0	27.2	27.6	27.9	29.1	28.4	29.5	29.9
4H	2H	24.1	25.5	24.5	25.8	26.2	25.2	26.6	25.6	27.0	27.3
	3H	25.8	27.0	26.2	27.4	27.8	27.6	28.7	28.0	29.1	29.5
	4H	26.4	27.5	26.8	27.9	28.3	28.3	29.4	28.8	29.8	30.2
	6H	26.9	27.8	27.3	28.2	28.7	28.8	29.8	29.3	30.2	30.6
	8H	27.0	27.9	27.5	28.3	28.8	29.0	29.8	29.4	30.3	30.7
	12H	27.1	27.9	27.6	28.3	28.8	29.1	29.9	29.6	30.3	30.8
8H	4H	27.0	27.8	27.4	28.3	28.7	28.6	29.5	29.1	29.9	30.4
	6H	27.6	28.3	28.1	28.8	29.3	29.2	29.9	29.7	30.4	30.9
	8H	27.8	28.4	28.3	28.9	29.4	29.4	30.1	29.9	30.6	31.1
	12H	27.9	28.5	28.4	29.0	29.6	29.6	30.2	30.1	30.7	31.2
12H	4H	27.0	27.8	27.5	28.3	28.7	28.6	29.4	29.1	29.9	30.3
	6H	27.7	28.3	28.2	28.8	29.3	29.3	29.9	29.8	30.4	30.9
	8H	28.0	28.5	28.5	29.0	29.6	29.5	30.1	30.0	30.6	31.1

Maximum UGR = 31.2

POLAR GRAPH



Maximum Candela = 8126.165 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.)