



IES INDOOR REPORT

PHOTOMETRIC FILENAME : PBL G2 4W MD UV FR 835.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 MD UV FR 835

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

[MORE] frosted plastic enclosures below LEDs.

[LAMP] 672 white LEDs, six 20103 3500K 3437A1 LED boards with 112 LEDs each.

[BALLAST] Three ULT Everline D21CC80UNVPW-C LED drivers each programmed to 1470mA

[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	33229
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	154
Total Luminaire Watts	215.1
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	23315	24799	25825
55	20374	23816	25639
65	16567	22851	25746
75	12458	22595	21364
85	8203	17372	15993

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	4280.77	N.A.	12.90
0-30	9086.63	N.A.	27.30
0-40	14860.2	N.A.	44.70
0-60	26080.91	N.A.	78.50
0-80	32506.65	N.A.	97.80
0-90	33207.43	N.A.	99.90
10-90	32099.53	N.A.	96.60
20-40	10579.43	N.A.	31.80
20-50	16511.14	N.A.	49.70
40-70	15277.63	N.A.	46.00
60-80	6425.73	N.A.	19.30
70-80	2368.82	N.A.	7.10
80-90	700.79	N.A.	2.10
90-110	21.20	N.A.	0.10
90-120	21.20	N.A.	0.10
90-130	21.20	N.A.	0.10
90-150	21.20	N.A.	0.10
90-180	21.20	N.A.	0.10
110-180	0.00	N.A.	0.00
0-180	33228.63	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1107.9
10-20	3172.86
20-30	4805.87
30-40	5773.56
40-50	5931.71
50-60	5289.00
60-70	4056.91
70-80	2368.82
80-90	700.79
90-100	21.09
100-110	0.11
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

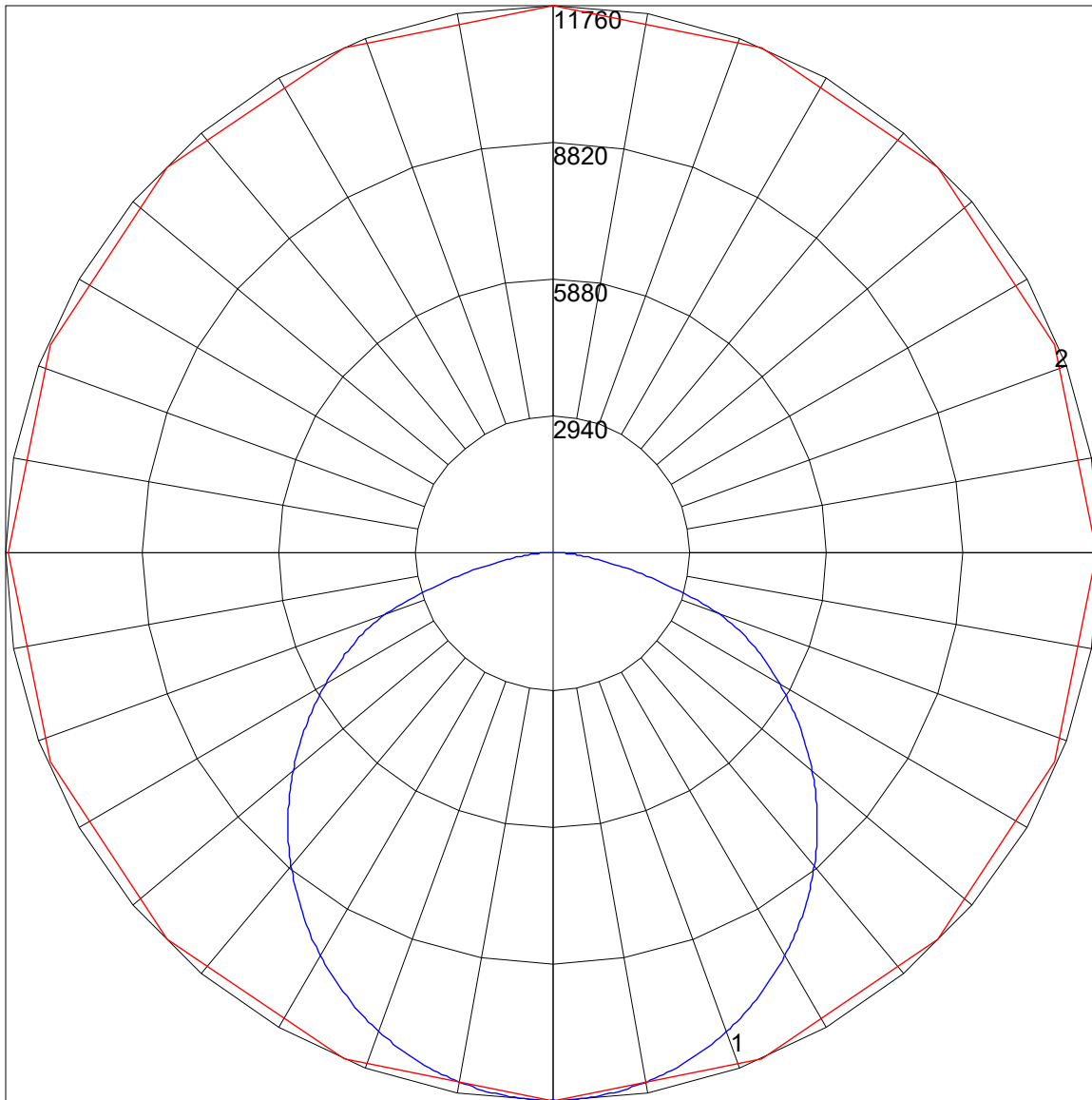
Room Size UGR Viewed Crosswise

UGR Viewed Endwise

X=2H	Y=2H	22.2	23.9	22.6	24.2	24.5	23.7	25.4	24.1	25.7	26.0
	3H	23.7	25.2	24.1	25.5	25.9	25.9	27.3	26.2	27.7	28.0
	4H	24.2	25.6	24.6	26.0	26.3	26.5	27.9	26.9	28.3	28.7
	6H	24.5	25.9	25.0	26.2	26.6	27.0	28.3	27.4	28.6	29.0
	8H	24.6	25.9	25.1	26.3	26.7	27.1	28.3	27.5	28.7	29.1
	12H	24.7	25.9	25.1	26.3	26.7	27.2	28.4	27.6	28.7	29.2
4H	2H	23.2	24.6	23.6	24.9	25.3	24.3	25.7	24.7	26.0	26.4
	3H	24.9	26.1	25.3	26.5	26.9	26.7	27.9	27.1	28.3	28.7
	4H	25.5	26.6	25.9	27.0	27.4	27.5	28.6	27.9	29.0	29.4
	6H	26.0	26.9	26.5	27.4	27.8	28.1	29.0	28.5	29.4	29.9
	8H	26.2	27.0	26.6	27.5	27.9	28.2	29.1	28.7	29.5	30.0
	12H	26.2	27.0	26.7	27.5	28.0	28.3	29.1	28.8	29.6	30.1
8H	4H	26.1	27.0	26.6	27.4	27.9	27.8	28.7	28.3	29.1	29.6
	6H	26.8	27.5	27.3	28.0	28.5	28.5	29.2	29.0	29.7	30.2
	8H	27.0	27.7	27.5	28.2	28.7	28.7	29.4	29.2	29.9	30.4
	12H	27.2	27.8	27.7	28.3	28.8	28.9	29.5	29.4	30.0	30.5
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	27.6	27.4	28.0	28.6	28.5	29.2	29.1	29.7	30.2
	8H	27.2	27.8	27.7	28.3	28.8	28.8	29.4	29.3	29.9	30.5

Maximum UGR = 30.5

POLAR GRAPH



Maximum Candela = 11759.897 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.)