



IES INDOOR REPORT

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

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

[MORE] frosted plastic enclosures below LEDs.

[LAMP] 896 white LEDs, eight 20103 3500K 3437A1 LED boards with 112 LEDs each.

[BALLAST] Two ULT Everline D28CC95UVPA12-F LED drivers each programmed to 2150mA

[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	32986
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	161
Total Luminaire Watts	205.3
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	23145	24618	25636
55	20225	23643	25452
65	16446	22684	25558
75	12367	22430	21209
85	8144	17245	15876

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	4249.55	N.A.	12.90
0-30	9020.38	N.A.	27.30
0-40	14751.84	N.A.	44.70
0-60	25890.74	N.A.	78.50
0-80	32269.61	N.A.	97.80
0-90	32965.29	N.A.	99.90
10-90	31865.46	N.A.	96.60
20-40	10502.29	N.A.	31.80
20-50	16390.75	N.A.	49.70
40-70	15166.22	N.A.	46.00
60-80	6378.87	N.A.	19.30
70-80	2351.55	N.A.	7.10
80-90	695.68	N.A.	2.10
90-110	21.04	N.A.	0.10
90-120	21.04	N.A.	0.10
90-130	21.04	N.A.	0.10
90-150	21.04	N.A.	0.10
90-180	21.04	N.A.	0.10
110-180	0.00	N.A.	0.00
0-180	32986.33	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1099.82
10-20	3149.73
20-30	4770.82
30-40	5731.46
40-50	5888.46
50-60	5250.44
60-70	4027.33
70-80	2351.55
80-90	695.68
90-100	20.94
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

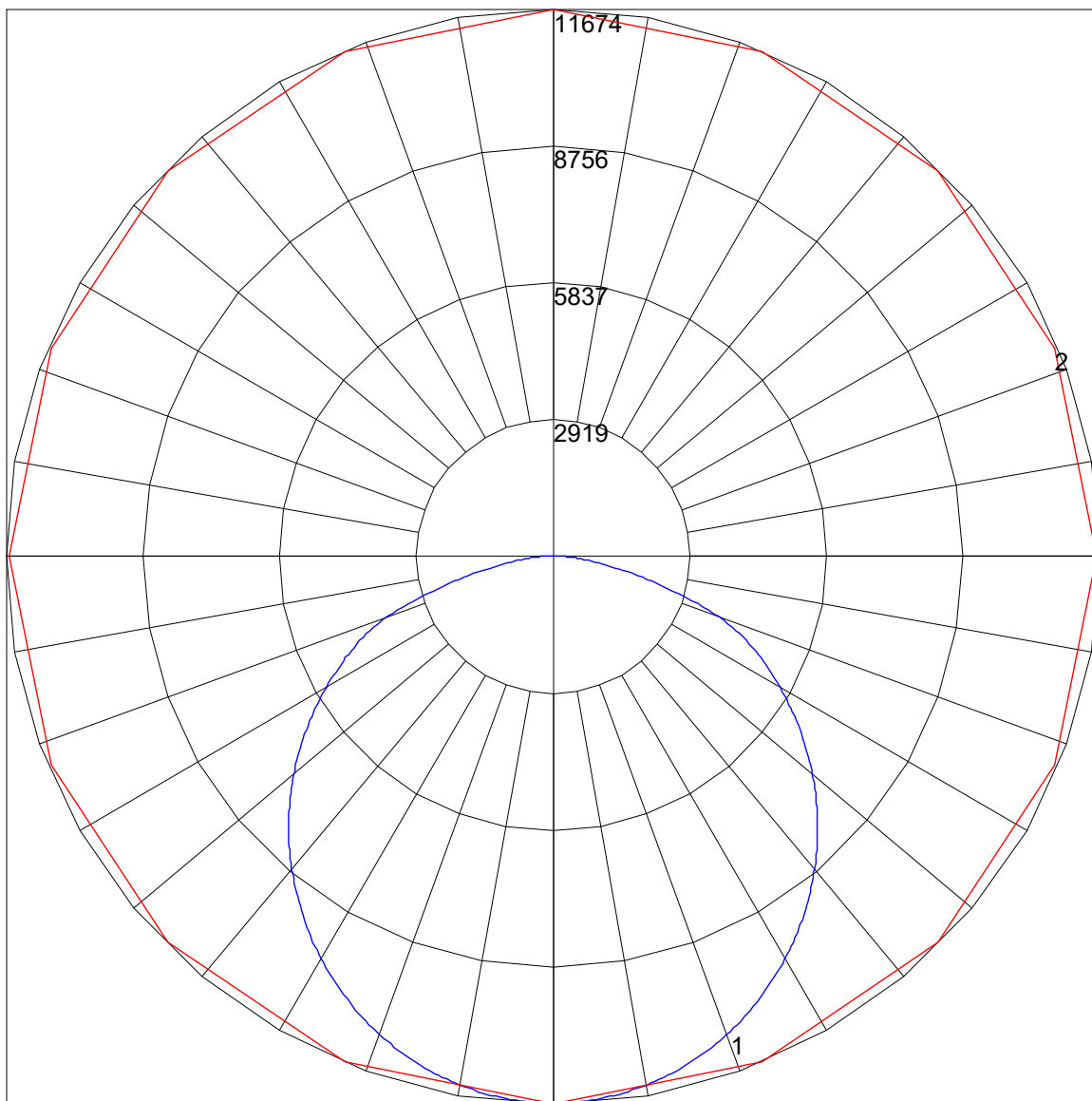
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UGR TABLE - CORRECTED

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 = 11674.145 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.)