



IES INDOOR REPORT

PHOTOMETRIC FILENAME : PBL G2 4W MD UV FR 840.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 840

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

[MORE] frosted plastic enclosures below LEDs.

[LAMP] 672 white LEDs, six 20103 4000K 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	34420
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	160
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	24151	25688	26750
55	21104	24670	26558
65	17161	23670	26669
75	12905	23404	22130
85	8497	17994	16566

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	4434.19	N.A.	12.90
0-30	9412.3	N.A.	27.30
0-40	15392.79	N.A.	44.70
0-60	27015.65	N.A.	78.50
0-80	33671.68	N.A.	97.80
0-90	34397.58	N.A.	99.90
10-90	33249.98	N.A.	96.60
20-40	10958.6	N.A.	31.80
20-50	17102.9	N.A.	49.70
40-70	15825.18	N.A.	46.00
60-80	6656.03	N.A.	19.30
70-80	2453.72	N.A.	7.10
80-90	725.90	N.A.	2.10
90-110	21.96	N.A.	0.10
90-120	21.96	N.A.	0.10
90-130	21.96	N.A.	0.10
90-150	21.96	N.A.	0.10
90-180	21.96	N.A.	0.10
110-180	0.00	N.A.	0.00
0-180	34419.54	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1147.61
10-20	3286.58
20-30	4978.11
30-40	5980.49
40-50	6144.3
50-60	5478.56
60-70	4202.31
70-80	2453.72
80-90	725.90
90-100	21.85
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

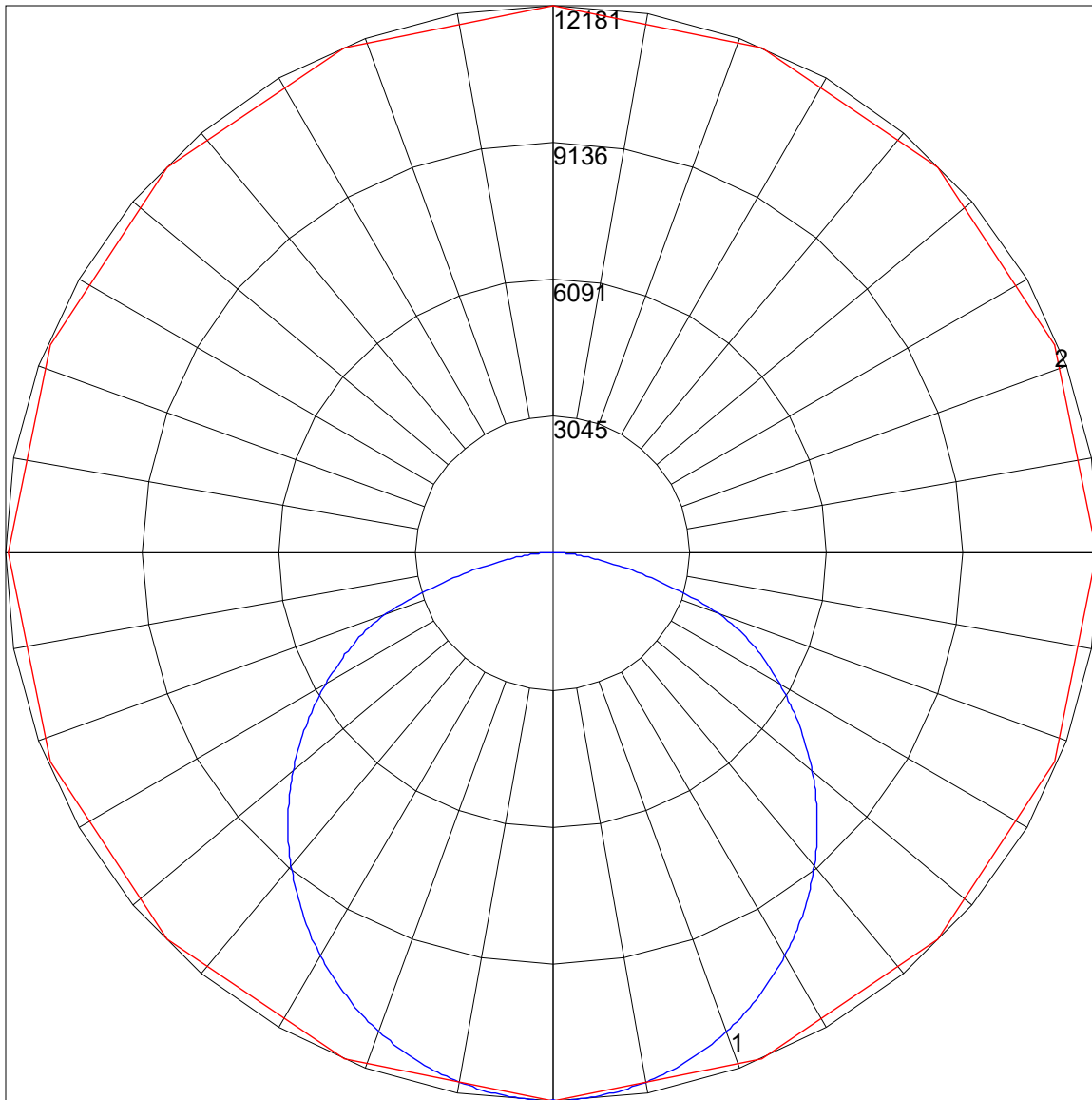
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UGR TABLE - CORRECTED

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	22.3	24.0	22.7	24.3	24.6	23.8	25.5	24.2	25.8	26.1
	3H	23.8	25.3	24.2	25.6	26.0	26.0	27.4	26.3	27.8	28.1
	4H	24.3	25.7	24.7	26.1	26.4	26.6	28.0	27.0	28.4	28.8
	6H	24.6	26.0	25.1	26.3	26.7	27.1	28.4	27.5	28.7	29.1
	8H	24.7	26.0	25.2	26.4	26.8	27.2	28.4	27.6	28.8	29.2
	12H	24.8	26.0	25.2	26.4	26.8	27.3	28.5	27.7	28.8	29.3
4H	2H	23.3	24.7	23.7	25.0	25.4	24.4	25.8	24.8	26.1	26.5
	3H	25.0	26.2	25.4	26.6	27.0	26.8	28.0	27.2	28.4	28.8
	4H	25.6	26.7	26.0	27.1	27.5	27.6	28.7	28.0	29.1	29.5
	6H	26.1	27.0	26.6	27.5	27.9	28.2	29.1	28.6	29.5	30.0
	8H	26.3	27.1	26.7	27.6	28.0	28.3	29.2	28.8	29.6	30.1
	12H	26.3	27.1	26.8	27.6	28.1	28.4	29.2	28.9	29.7	30.2
8H	4H	26.2	27.1	26.7	27.5	28.0	27.9	28.8	28.4	29.2	29.7
	6H	26.9	27.6	27.4	28.1	28.6	28.6	29.3	29.1	29.8	30.3
	8H	27.1	27.8	27.6	28.3	28.8	28.8	29.5	29.3	30.0	30.5
	12H	27.3	27.9	27.8	28.4	28.9	29.0	29.6	29.5	30.1	30.6
12H	4H	26.3	27.1	26.8	27.6	28.0	27.9	28.7	28.4	29.2	29.6
	6H	27.0	27.7	27.5	28.1	28.7	28.6	29.3	29.2	29.8	30.3
	8H	27.3	27.9	27.8	28.4	28.9	28.9	29.5	29.4	30.0	30.6

Maximum UGR = 30.6

POLAR GRAPH



Maximum Candela = 12181.371 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.)