



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : PBL G2 4W LW 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 LW 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 1900mA

[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	29361
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	162
Total Luminaire Watts	180.7
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	20602	21913	22819
55	18003	21045	22655
65	14639	20191	22750
75	11008	19965	18878
85	7249	15350	14132

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	3782.57	N.A.	12.90
0-30	8029.13	N.A.	27.30
0-40	13130.77	N.A.	44.70
0-60	23045.62	N.A.	78.50
0-80	28723.52	N.A.	97.80
0-90	29342.75	N.A.	99.90
10-90	28363.79	N.A.	96.60
20-40	9348.2	N.A.	31.80
20-50	14589.58	N.A.	49.70
40-70	13499.62	N.A.	46.00
60-80	5677.9	N.A.	19.30
70-80	2093.14	N.A.	7.10
80-90	619.23	N.A.	2.10
90-110	18.73	N.A.	0.10
90-120	18.73	N.A.	0.10
90-130	18.73	N.A.	0.10
90-150	18.73	N.A.	0.10
90-180	18.73	N.A.	0.10
110-180	0.00	N.A.	0.00
0-180	29361.48	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	978.97
10-20	2803.61
20-30	4246.56
30-40	5101.64
40-50	5241.38
50-60	4673.47
60-70	3584.77
70-80	2093.14
80-90	619.23
90-100	18.64
100-110	0.09
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

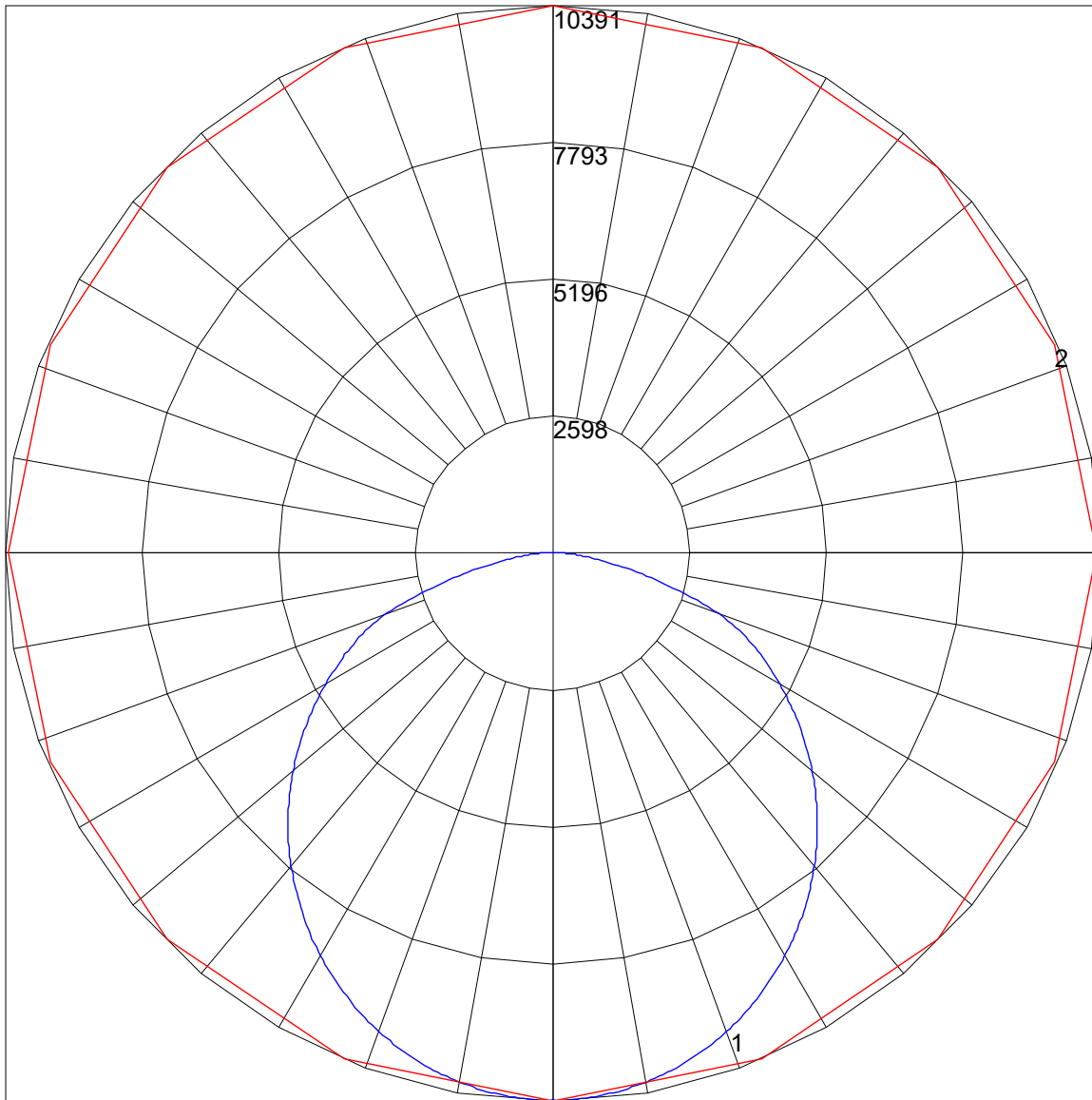
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**UGR TABLE - CORRECTED**

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	21.7	23.4	22.1	23.7	24.0	23.2	24.9	23.6	25.2	25.5
	3H	23.2	24.7	23.6	25.0	25.4	25.4	26.8	25.7	27.2	27.5
	4H	23.7	25.1	24.1	25.5	25.8	26.0	27.4	26.4	27.8	28.2
	6H	24.0	25.4	24.5	25.7	26.1	26.5	27.8	26.9	28.1	28.5
	8H	24.1	25.4	24.6	25.8	26.2	26.6	27.8	27.0	28.2	28.6
	12H	24.2	25.4	24.6	25.8	26.2	26.7	27.9	27.1	28.2	28.7
4H	2H	22.7	24.1	23.1	24.4	24.8	23.8	25.2	24.2	25.5	25.9
	3H	24.4	25.6	24.8	26.0	26.4	26.2	27.4	26.6	27.8	28.2
	4H	25.0	26.1	25.4	26.5	26.9	27.0	28.1	27.4	28.5	28.9
	6H	25.5	26.4	26.0	26.9	27.3	27.6	28.5	28.0	28.9	29.4
	8H	25.7	26.5	26.1	27.0	27.4	27.7	28.6	28.2	29.0	29.5
	12H	25.7	26.5	26.2	27.0	27.5	27.8	28.6	28.3	29.1	29.6
8H	4H	25.6	26.5	26.1	26.9	27.4	27.3	28.2	27.8	28.6	29.1
	6H	26.3	27.0	26.8	27.5	28.0	28.0	28.7	28.5	29.2	29.7
	8H	26.5	27.2	27.0	27.7	28.2	28.2	28.9	28.7	29.4	29.9
	12H	26.7	27.3	27.2	27.8	28.3	28.4	29.0	28.9	29.5	30.0
12H	4H	25.7	26.5	26.2	27.0	27.4	27.3	28.1	27.8	28.6	29.0
	6H	26.4	27.1	26.9	27.5	28.1	28.0	28.7	28.6	29.2	29.7
	8H	26.7	27.3	27.2	27.8	28.3	28.3	28.9	28.8	29.4	30.0

Maximum UGR = 30.0

POLAR GRAPH



Maximum Candela = 10391.28 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.)