



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : PBL G2 4W VH UV 835.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LLIA001249-018(s)

[TESTLAB] LightLab International Allentown, LLC

[ISSUE DATE] 3/24/2020

[MANUFAC] Lumen Focus, LLC

[LUMCAT] PBL G2 4W VH UV 835

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

[MORE] no enclosure.

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

[BALLAST] Four ULT Everline D21CC80UNVPW-C LED drivers each programmed to 1630mA

[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	51939
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	163
Total Luminaire Watts	319.5
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.30
Spacing Criterion (90-270)	1.28
Spacing Criterion (Diagonal)	1.42
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	39816	39423	39620
55	38733	38547	39000
65	36065	36512	37714
75	30301	33495	25829
85	15482	10367	11417

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	6482.59	N.A.	12.50
0-30	13846.03	N.A.	26.70
0-40	22854.24	N.A.	44.00
0-60	41067.62	N.A.	79.10
0-80	51317.5	N.A.	98.80
0-90	51933.09	N.A.	100.00
10-90	50261.14	N.A.	96.80
20-40	16371.65	N.A.	31.50
20-50	25869.39	N.A.	49.80
40-70	24960.37	N.A.	48.10
60-80	10249.88	N.A.	19.70
70-80	3502.9	N.A.	6.70
80-90	615.60	N.A.	1.20
90-110	6.39	N.A.	0.00
90-120	6.39	N.A.	0.00
90-130	6.39	N.A.	0.00
90-150	6.39	N.A.	0.00
90-180	6.39	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	51939.48	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	1671.95
10-20	4810.64
20-30	7363.44
30-40	9008.21
40-50	9497.74
50-60	8715.64
60-70	6746.98
70-80	3502.9
80-90	615.60
90-100	6.36
100-110	0.03
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	95	98	94	92	94	91	89	90	88	86	84
2	99	91	84	78	96	89	82	77	85	80	75	82	77	74	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	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50
5	76	63	54	47	73	61	53	47	59	52	46	57	51	46	55	50	45	43
6	70	56	47	41	68	55	47	41	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	49	41	35	47	40	35	46	40	35	33
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

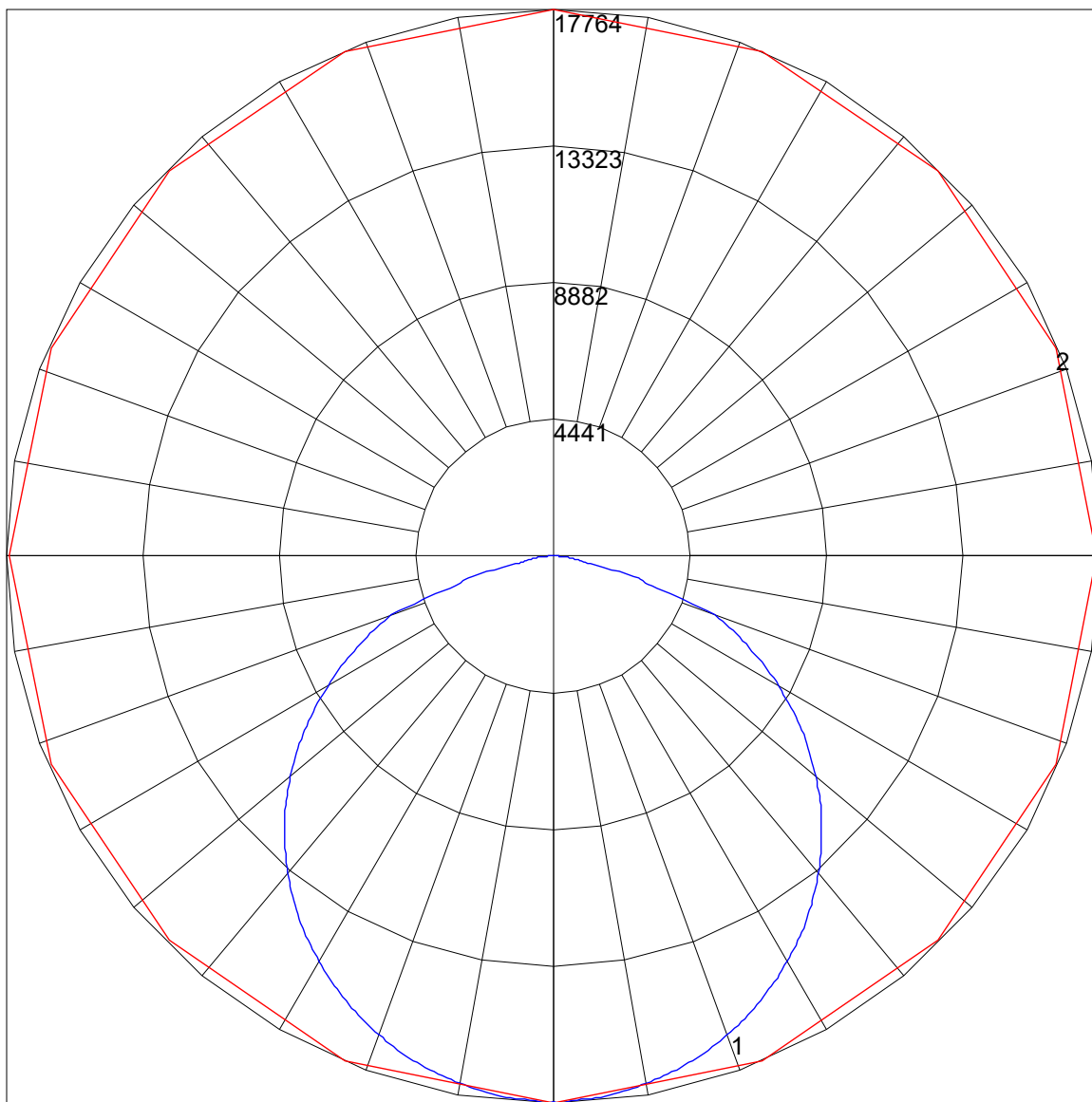
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**UGR TABLE - CORRECTED**

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	24.9	26.5	25.2	26.8	27.1	25.1	26.7	25.4	27.0	27.3
	3H	26.7	28.2	27.1	28.5	28.9	27.0	28.5	27.4	28.9	29.2
	4H	27.3	28.7	27.7	29.1	29.4	27.4	28.8	27.8	29.2	29.6
	6H	27.7	29.0	28.1	29.4	29.8	27.5	28.9	28.0	29.2	29.6
	8H	27.9	29.1	28.3	29.5	29.9	27.6	28.8	28.0	29.2	29.6
	12H	27.9	29.1	28.3	29.5	29.9	27.6	28.8	28.0	29.1	29.6
4H	2H	25.5	26.9	25.9	27.3	27.7	25.7	27.1	26.1	27.4	27.8
	3H	27.6	28.7	28.0	29.1	29.5	27.9	29.1	28.3	29.5	29.9
	4H	28.3	29.4	28.8	29.8	30.2	28.4	29.5	28.8	29.9	30.3
	6H	28.9	29.8	29.3	30.2	30.7	28.6	29.5	29.0	29.9	30.4
	8H	29.0	29.9	29.5	30.3	30.8	28.6	29.5	29.0	29.9	30.4
	12H	29.1	29.9	29.6	30.3	30.8	28.6	29.4	29.1	29.9	30.3
8H	4H	28.6	29.5	29.1	29.9	30.4	28.7	29.5	29.1	30.0	30.4
	6H	29.3	30.0	29.7	30.5	30.9	28.9	29.6	29.4	30.1	30.6
	8H	29.5	30.1	30.0	30.6	31.1	28.9	29.6	29.4	30.1	30.6
	12H	29.6	30.1	30.1	30.6	31.2	29.0	29.5	29.5	30.0	30.6
12H	4H	28.6	29.4	29.1	29.9	30.3	28.7	29.5	29.2	29.9	30.4
	6H	29.3	29.9	29.8	30.4	30.9	28.9	29.6	29.4	30.0	30.6
	8H	29.5	30.1	30.0	30.6	31.1	29.0	29.5	29.5	30.0	30.6

Maximum UGR = 31.2

POLAR GRAPH



Maximum Candela = 17763.778 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.)