



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : PBL V2 2 HI UV 840.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LLIA001687-005A

[TESTLAB] LightLab International Allentown, LLC

[ISSUE DATE] 4/7/2022

[MANUFAC] Lumen Focus, LLC

[LUMCAT] PBL V2 2 HI UV 840

[LUMINAIRE] High Bay mounted, formed white painted aluminum housing/reflector,

[MORE] no enclosure.

[LAMP] 168 white LEDs, two ULT M900C840D84N2Q LED boards

[BALLAST] One ULT D21CC80UNVPW-C LED driver programmed at 1980mA

[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	13700
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	156
Total Luminaire Watts	88
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.32
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.40
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	2.00 ft
Luminous Width (90-270)	0.92 ft
Luminous Height	0.00 ft

### LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	28649	27344	27248
55	28005	26659	27123
65	25996	25527	27128
75	20881	23890	3696
85	7604	5487	6271

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1747.4	N.A.	12.80
0-30	3727.06	N.A.	27.20
0-40	6149.07	N.A.	44.90
0-60	11051.35	N.A.	80.70
0-80	13577.45	N.A.	99.10
0-90	13698.45	N.A.	100.00
10-90	13246.84	N.A.	96.70
20-40	4401.68	N.A.	32.10
20-50	6956.75	N.A.	50.80
40-70	6737.51	N.A.	49.20
60-80	2526.1	N.A.	18.40
70-80	690.87	N.A.	5.00
80-90	121.00	N.A.	0.90
90-110	1.75	N.A.	0.00
90-120	1.75	N.A.	0.00
90-130	1.75	N.A.	0.00
90-150	1.75	N.A.	0.00
90-180	1.75	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	13700.2	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	451.61
10-20	1295.78
20-30	1979.67
30-40	2422.01
40-50	2555.07
50-60	2347.21
60-70	1835.24
70-80	690.87
80-90	121.00
90-100	1.75
100-110	0.00
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	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	67	63	70	66	62	60
4	83	71	62	56	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	47	60	53	47	58	52	46	56	50	46	44
6	70	57	48	42	68	56	47	41	54	47	41	52	46	41	51	45	40	38
7	65	51	43	37	63	51	42	36	49	42	36	48	41	36	46	40	36	34
8	60	47	38	33	59	46	38	32	45	38	32	44	37	32	42	36	32	30
9	56	43	35	29	55	42	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	26	52	39	32	26	38	31	26	37	31	26	36	30	26	24

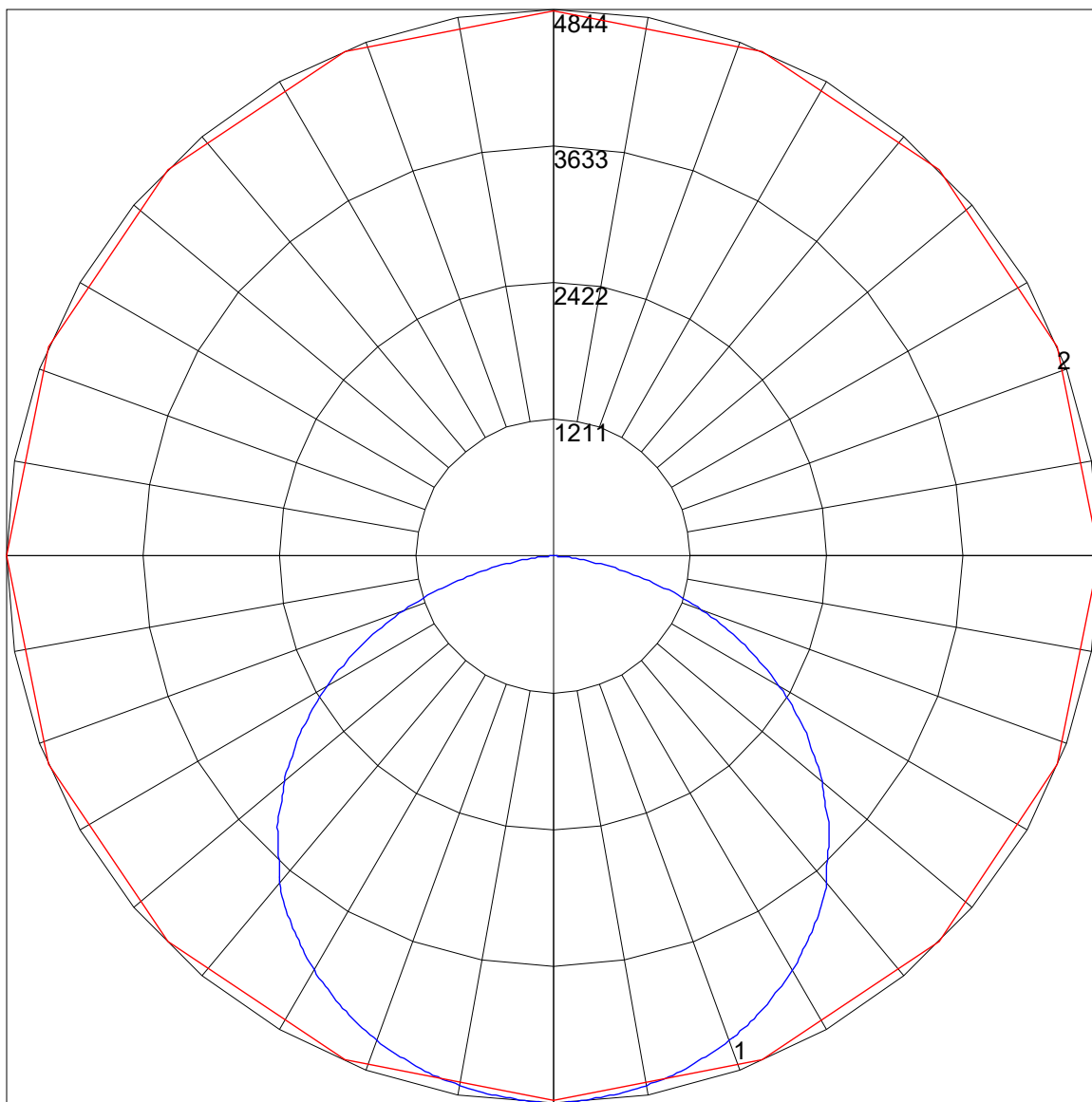
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**UGR TABLE - CORRECTED**

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	23.7	25.3	24.1	25.7	26.0	23.9	25.6	24.3	25.9	26.2
	3H	25.5	27.0	25.9	27.3	27.7	26.1	27.6	26.5	27.9	28.2
	4H	26.2	27.5	26.6	27.9	28.3	26.0	27.4	26.4	27.8	28.2
	6H	26.6	27.8	27.0	28.2	28.6	26.0	27.3	26.4	27.7	28.0
	8H	26.7	27.9	27.1	28.3	28.7	26.0	27.2	26.4	27.6	28.0
	12H	26.7	27.8	27.1	28.2	28.6	26.0	27.2	26.4	27.5	28.0
4H	2H	24.4	25.8	24.8	26.1	26.5	24.6	26.0	25.0	26.3	26.7
	3H	26.4	27.6	26.8	28.0	28.4	26.9	28.0	27.3	28.4	28.8
	4H	27.2	28.2	27.6	28.6	29.1	26.8	27.9	27.2	28.3	28.7
	6H	27.7	28.6	28.2	29.0	29.5	26.8	27.7	27.3	28.2	28.6
	8H	27.8	28.7	28.3	29.1	29.6	26.8	27.6	27.3	28.1	28.6
	12H	27.8	28.6	28.3	29.1	29.5	26.8	27.6	27.3	28.0	28.5
8H	4H	27.3	28.2	27.8	28.6	29.1	27.0	27.9	27.5	28.3	28.8
	6H	28.0	28.6	28.4	29.1	29.6	27.0	27.7	27.5	28.2	28.7
	8H	28.1	28.7	28.6	29.2	29.7	27.0	27.6	27.5	28.1	28.6
	12H	28.1	28.7	28.6	29.1	29.7	27.0	27.6	27.5	28.1	28.6
12H	4H	27.3	28.1	27.8	28.6	29.0	27.0	27.8	27.5	28.3	28.7
	6H	27.9	28.5	28.4	29.0	29.5	27.0	27.6	27.5	28.1	28.6
	8H	28.1	28.6	28.6	29.1	29.7	27.0	27.6	27.5	28.1	28.6

Maximum UGR = 29.7

POLAR GRAPH



Maximum Candela = 4843.766 Located At Horizontal Angle = 0, Vertical Angle = .5

# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)

# 2 - Horizontal Cone Through Vertical Angle (.5) (Through Max. Cd.)