



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : PBL V2 4 LW UV 840.IES

### DESCRIPTION INFORMATION (From Photometric File)

[IESNA:LM-63-2002

[TEST] LLIA001687-017

[TESTLAB] LightLab International Allentown, LLC

[ISSUEDATE] 4/19/2022

[MANUFAC] Lumen Focus, LLC

[LUMCAT] PBL V2 4 LW UV 840

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

[MORE] no enclosure.

[LAMP] 336 white LEDs, four ULT M900C840D84N2Q LED boards

[BALLAST] One ULT D28CC95UVPA12-F LED driver labeled at 2420mA

[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	17481
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	168
Total Luminaire Watts	104.1
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.30
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.40
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.80 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	18873	18125	18224
55	18579	17711	18106
65	17616	17092	18007
75	14811	17275	2403
85	7499	3581	4022

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	2211.9	N.A.	12.70
0-30	4719.93	N.A.	27.00
0-40	7784.83	N.A.	44.50
0-60	13988.27	N.A.	80.00
0-80	17313.72	N.A.	99.00
0-90	17478.42	N.A.	100.00
10-90	16906.48	N.A.	96.70
20-40	5572.93	N.A.	31.90
20-50	8801.98	N.A.	50.40
40-70	8548.02	N.A.	48.90
60-80	3325.45	N.A.	19.00
70-80	980.88	N.A.	5.60
80-90	164.70	N.A.	0.90
90-110	2.46	N.A.	0.00
90-120	2.46	N.A.	0.00
90-130	2.46	N.A.	0.00
90-150	2.46	N.A.	0.00
90-180	2.46	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	17480.88	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	571.94
10-20	1639.96
20-30	2508.03
30-40	3064.9
40-50	3229.06
50-60	2974.39
60-70	2344.58
70-80	980.88
80-90	164.70
90-100	2.41
100-110	0.05
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	100	97	106	102	99	95	98	95	92	94	92	89	91	89	87	85
2	99	91	84	79	97	89	83	78	86	81	76	82	78	74	79	76	73	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	63	70	65	61	59
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	50
5	76	63	54	47	74	62	53	47	60	52	47	58	51	46	56	50	46	43
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	51	45	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	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	39	32	26	51	39	31	26	38	31	26	37	31	26	36	30	26	24

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**UGR TABLE - CORRECTED**

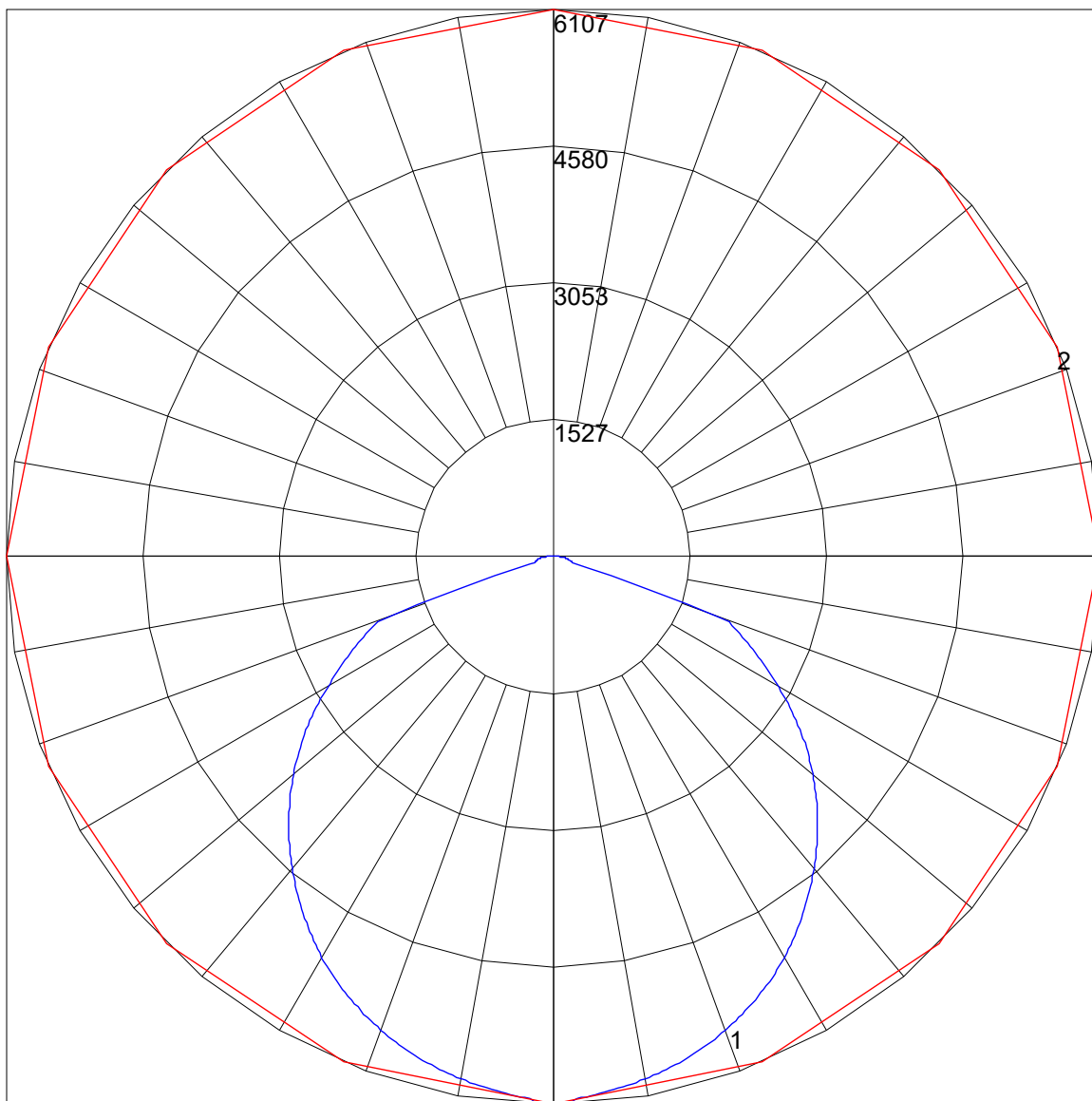
Reflectances

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	22.4	24.0	22.7	24.3	24.6	22.6	24.2	22.9	24.5	24.8
	3H	24.3	25.7	24.6	26.1	26.4	24.7	26.2	25.1	26.5	26.9
	4H	25.0	26.3	25.4	26.7	27.1	24.7	26.1	25.1	26.4	26.8
	6H	25.4	26.7	25.8	27.1	27.4	24.6	25.9	25.1	26.3	26.7
	8H	25.5	26.7	26.0	27.1	27.5	24.6	25.9	25.1	26.2	26.6
	12H	25.5	26.7	26.0	27.1	27.5	24.6	25.8	25.0	26.2	26.6
4H	2H	23.1	24.4	23.5	24.8	25.2	23.2	24.6	23.6	24.9	25.3
	3H	25.2	26.3	25.6	26.7	27.1	25.6	26.8	26.0	27.2	27.6
	4H	26.0	27.0	26.4	27.4	27.8	25.6	26.6	26.0	27.0	27.5
	6H	26.5	27.5	27.0	27.9	28.3	25.6	26.5	26.0	26.9	27.4
	8H	26.7	27.6	27.2	28.0	28.5	25.6	26.4	26.0	26.8	27.3
	12H	26.8	27.5	27.2	28.0	28.5	25.6	26.3	26.0	26.8	27.3
8H	4H	26.2	27.0	26.6	27.5	27.9	25.8	26.6	26.3	27.1	27.6
	6H	26.8	27.5	27.3	28.0	28.5	25.8	26.5	26.3	27.0	27.4
	8H	27.0	27.7	27.5	28.2	28.6	25.8	26.4	26.3	26.9	27.4
	12H	27.1	27.6	27.6	28.1	28.7	25.8	26.3	26.3	26.8	27.4
12H	4H	26.1	26.9	26.6	27.4	27.8	25.8	26.6	26.3	27.0	27.5
	6H	26.8	27.4	27.3	27.9	28.4	25.8	26.4	26.3	26.9	27.4
	8H	27.0	27.6	27.5	28.1	28.6	25.8	26.3	26.3	26.8	27.4

Maximum UGR = 28.7

POLAR GRAPH



Maximum Candela = 6106.839 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.)