



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : PBL V2 2 VH UV FR 840.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] LLIA001687-002  
[TESTLAB] LightLab International Allentown, LLC  
[ISSUE DATE] 4/7/2022  
[MANUFAC] Lumen Focus, LLC  
[LUMCAT] PBL V2 2 VH UV FR 840  
[LUMINAIRE] High Bay mounted, formed white painted aluminum housing/reflector,  
[MORE] three curved translucent plastic enclosures.  
[LAMP] 252 white LEDs, three ULT M900C840D84N2Q LED boards  
[BALLAST] One ULT D28CC95UVPA12-F LED driver labeled at 2380mA  
[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	15712
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	151
Total Luminaire Watts	104
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.24
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.38
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	28941	30927	32179
55	25221	29853	32000
65	20616	28624	31112
75	15608	25095	17138
85	9666	16606	14458

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	2062.12	N.A.	13.10
0-30	4371.92	N.A.	27.80
0-40	7146.45	N.A.	45.50
0-60	12552.71	N.A.	79.90
0-80	15458.58	N.A.	98.40
0-90	15710.04	N.A.	100.00
10-90	15175.38	N.A.	96.60
20-40	5084.33	N.A.	32.40
20-50	7940.15	N.A.	50.50
40-70	7336.29	N.A.	46.70
60-80	2905.87	N.A.	18.50
70-80	975.84	N.A.	6.20
80-90	251.46	N.A.	1.60
90-110	2.16	N.A.	0.00
90-120	2.16	N.A.	0.00
90-130	2.16	N.A.	0.00
90-150	2.16	N.A.	0.00
90-180	2.16	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	15712.2	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	534.65
10-20	1527.47
20-30	2309.8
30-40	2774.53
40-50	2855.83
50-60	2550.43
60-70	1930.03
70-80	975.84
80-90	251.46
90-100	2.16
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	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61	59
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	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	48	41	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	46	40	36	34
8	61	47	39	33	59	46	38	33	45	38	32	44	37	32	43	37	32	30
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31	26	25

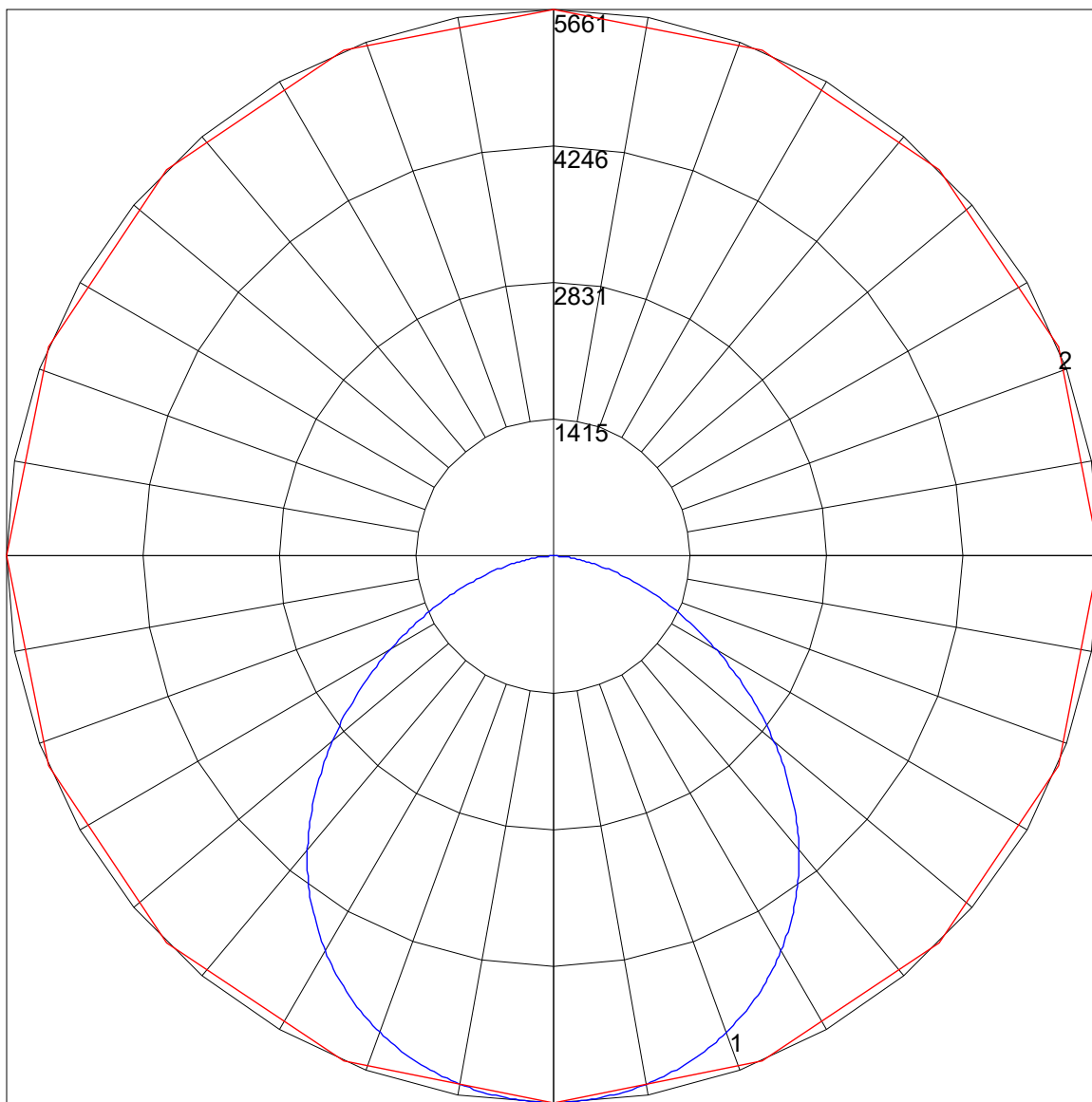
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**UGR TABLE - CORRECTED**

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	23.0	24.7	23.4	25.0	25.3	24.6	26.2	25.0	26.6	26.9
	3H	24.5	26.0	24.9	26.3	26.7	26.4	27.9	26.8	28.2	28.6
	4H	25.0	26.4	25.4	26.8	27.2	26.8	28.1	27.2	28.5	28.9
	6H	25.4	26.7	25.8	27.0	27.4	26.9	28.2	27.3	28.6	29.0
	8H	25.5	26.7	25.9	27.1	27.5	27.0	28.2	27.4	28.6	29.0
	12H	25.5	26.7	26.0	27.1	27.5	27.0	28.2	27.5	28.6	29.0
4H	2H	24.0	25.4	24.4	25.7	26.1	25.2	26.6	25.6	26.9	27.3
	3H	25.7	26.9	26.1	27.3	27.7	27.2	28.4	27.6	28.8	29.2
	4H	26.3	27.4	26.8	27.8	28.3	27.6	28.7	28.1	29.1	29.5
	6H	26.8	27.7	27.3	28.2	28.6	27.9	28.8	28.4	29.2	29.7
	8H	27.0	27.8	27.4	28.2	28.7	28.0	28.8	28.4	29.3	29.7
	12H	27.0	27.8	27.5	28.3	28.7	28.1	28.8	28.5	29.3	29.8
8H	4H	26.8	27.7	27.3	28.1	28.6	27.9	28.8	28.4	29.2	29.7
	6H	27.4	28.1	27.9	28.6	29.1	28.2	29.0	28.7	29.4	29.9
	8H	27.6	28.3	28.1	28.8	29.2	28.4	29.0	28.9	29.5	30.0
	12H	27.8	28.3	28.3	28.8	29.4	28.5	29.1	29.0	29.6	30.1
12H	4H	26.8	27.6	27.3	28.1	28.5	27.9	28.7	28.4	29.2	29.6
	6H	27.5	28.1	28.0	28.6	29.1	28.3	28.9	28.8	29.4	29.9
	8H	27.7	28.3	28.2	28.8	29.3	28.5	29.0	29.0	29.5	30.1

Maximum UGR = 30.1

POLAR GRAPH



Maximum Candela = 5661.237 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)