



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : PBL V2 2W SH UV 840.IES

### DESCRIPTION INFORMATION (From Photometric File)

[IESNA:LM-63-2002

[TEST] LLIA001687-011

[TESTLAB] LightLab International Allentown, LLC

[ISSUEDATE] 4/19/2022

[MANUFAC] Lumen Focus, LLC

[LUMCAT] PBL V2 2W SH 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] Two ULT D21CC80UNVPW-D LED drivers labeled at 1710mA

[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	24110
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	159
Total Luminaire Watts	151.2
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.30
Spacing Criterion (90-270)	1.30
Spacing Criterion (Diagonal)	1.42
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	2.00 ft
Luminous Width (90-270)	1.26 ft
Luminous Height	0.00 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	35219	34813	34805
55	34241	34022	34077
65	31694	31718	32423
75	25543	27924	15394
85	10305	9646	11024

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	3015.18	N.A.	12.50
0-30	6444.38	N.A.	26.70
0-40	10651.23	N.A.	44.20
0-60	19176.00	N.A.	79.50
0-80	23830.17	N.A.	98.80
0-90	24107.27	N.A.	100.00
10-90	23329.68	N.A.	96.80
20-40	7636.06	N.A.	31.70
20-50	12084.19	N.A.	50.10
40-70	11641.94	N.A.	48.30
60-80	4654.17	N.A.	19.30
70-80	1537.00	N.A.	6.40
80-90	277.10	N.A.	1.10
90-110	2.39	N.A.	0.00
90-120	2.39	N.A.	0.00
90-130	2.39	N.A.	0.00
90-150	2.39	N.A.	0.00
90-180	2.39	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	24109.66	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	777.59
10-20	2237.59
20-30	3429.2
30-40	4206.86
40-50	4448.13
50-60	4076.64
60-70	3117.17
70-80	1537.00
80-90	277.10
90-100	2.39
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	78	96	89	83	77	85	80	76	82	78	74	79	75	72	70
3	90	80	71	65	88	78	70	64	75	69	63	72	67	62	70	65	61	59
4	82	70	62	55	80	69	61	54	67	59	54	64	58	53	62	57	52	50
5	76	63	54	47	74	62	53	47	60	52	46	58	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	40	35	46	40	35	33
8	60	47	38	32	59	46	38	32	44	37	32	43	36	32	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	29	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**

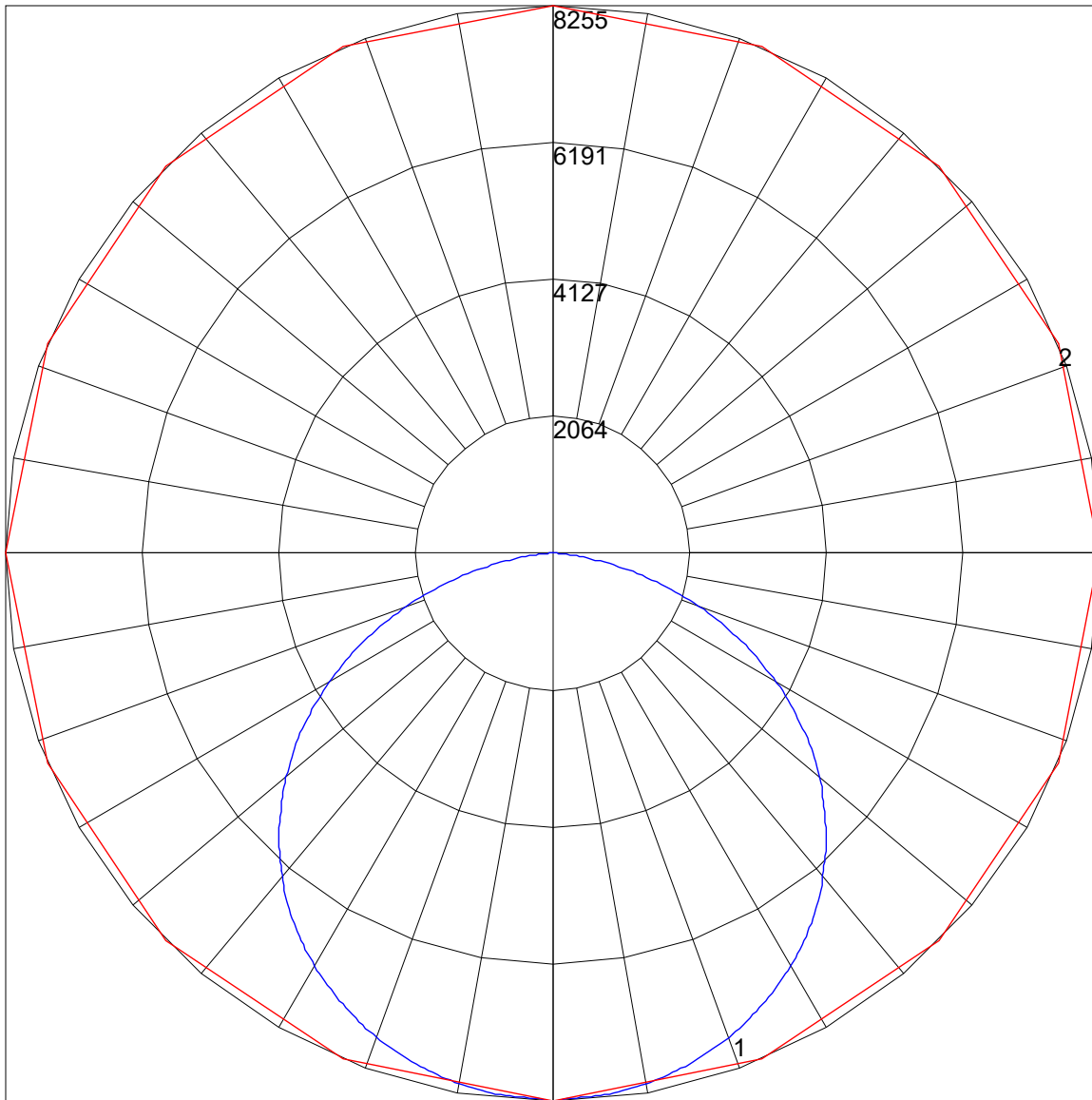
Reflectances

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	24.5	26.2	24.9	26.5	26.8	24.6	26.3	25.0	26.6	26.9
	3H	26.3	27.8	26.7	28.1	28.5	26.6	28.1	27.0	28.4	28.8
	4H	26.9	28.3	27.3	28.7	29.1	26.8	28.2	27.2	28.5	28.9
	6H	27.3	28.6	27.7	29.0	29.3	26.9	28.2	27.3	28.6	29.0
	8H	27.4	28.6	27.8	29.0	29.4	27.0	28.2	27.4	28.6	29.0
	12H	27.4	28.6	27.8	29.0	29.4	27.0	28.2	27.4	28.5	29.0
4H	2H	25.2	26.6	25.6	27.0	27.3	25.3	26.7	25.7	27.0	27.4
	3H	27.2	28.4	27.6	28.8	29.2	27.5	28.6	27.9	29.0	29.4
	4H	27.9	29.0	28.3	29.4	29.8	27.7	28.8	28.1	29.2	29.6
	6H	28.4	29.3	28.8	29.7	30.2	27.9	28.8	28.3	29.2	29.7
	8H	28.5	29.4	29.0	29.8	30.3	27.9	28.8	28.4	29.2	29.7
	12H	28.5	29.3	29.0	29.8	30.2	28.0	28.8	28.5	29.2	29.7
8H	4H	28.2	29.0	28.6	29.5	29.9	28.0	28.8	28.4	29.3	29.7
	6H	28.7	29.4	29.2	29.9	30.4	28.2	28.9	28.7	29.4	29.9
	8H	28.9	29.5	29.4	30.0	30.5	28.3	28.9	28.8	29.4	29.9
	12H	28.9	29.5	29.4	30.0	30.5	28.3	28.9	28.9	29.4	30.0
12H	4H	28.2	28.9	28.6	29.4	29.9	28.0	28.8	28.5	29.2	29.7
	6H	28.7	29.4	29.2	29.8	30.4	28.2	28.9	28.7	29.3	29.8
	8H	28.9	29.5	29.4	30.0	30.5	28.3	28.9	28.8	29.4	29.9

Maximum UGR = 30.5

POLAR GRAPH



Maximum Candela = 8254.959 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.)