



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : PBL V2 4 MD UV FR 850.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LLIA001687-020

[TESTLAB] LightLab International Allentown, LLC

[ISSUE DATE] 4/19/2022

[MANUFAC] Lumen Focus, LLC

[LUMCAT] PBL V2 4 MD UV FR 850

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

[MORE] two curved translucent plastic enclosures.

[LAMP] 336 white LEDs, four ULT M900C850D84N2Q LED boards

[BALLAST] Two ULT D15CC55UNVPW-C LED driver labeled at 1380mA

[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	18404
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	152
Total Luminaire Watts	121.2
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.24
Spacing Criterion (90-270)	1.28
Spacing Criterion (Diagonal)	1.38
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	17846	18935	19768
55	15751	18301	19620
65	13072	17672	19296
75	10078	15915	10715
85	6737	10699	8150

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	2398.87	N.A.	13.00
0-30	5087.37	N.A.	27.60
0-40	8321.01	N.A.	45.20
0-60	14639.8	N.A.	79.50
0-80	18097.68	N.A.	98.30
0-90	18400.47	N.A.	100.00
10-90	17778.24	N.A.	96.60
20-40	5922.14	N.A.	32.20
20-50	9254.88	N.A.	50.30
40-70	8601.13	N.A.	46.70
60-80	3457.88	N.A.	18.80
70-80	1175.54	N.A.	6.40
80-90	302.78	N.A.	1.60
90-110	3.13	N.A.	0.00
90-120	3.13	N.A.	0.00
90-130	3.13	N.A.	0.00
90-150	3.13	N.A.	0.00
90-180	3.13	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	18403.6	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	622.23
10-20	1776.65
20-30	2688.49
30-40	3233.65
40-50	3332.74
50-60	2986.05
60-70	2282.34
70-80	1175.54
80-90	302.78
90-100	3.05
100-110	0.09
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	83	77	85	80	76	82	78	74	79	75	72	70
3	90	80	72	65	88	78	71	65	75	69	63	72	67	62	70	65	61	59
4	83	71	62	55	80	69	61	55	67	60	54	64	58	53	62	57	53	50
5	76	63	54	47	74	62	54	47	60	52	47	58	51	46	56	50	46	44
6	70	57	48	41	68	56	47	41	54	46	41	52	46	40	51	45	40	38
7	65	51	43	37	63	51	42	36	49	42	36	48	41	36	46	40	36	34
8	61	47	38	33	59	46	38	33	45	38	32	44	37	32	43	36	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	26	37	31	26	36	30	26	24

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**UGR TABLE - CORRECTED**

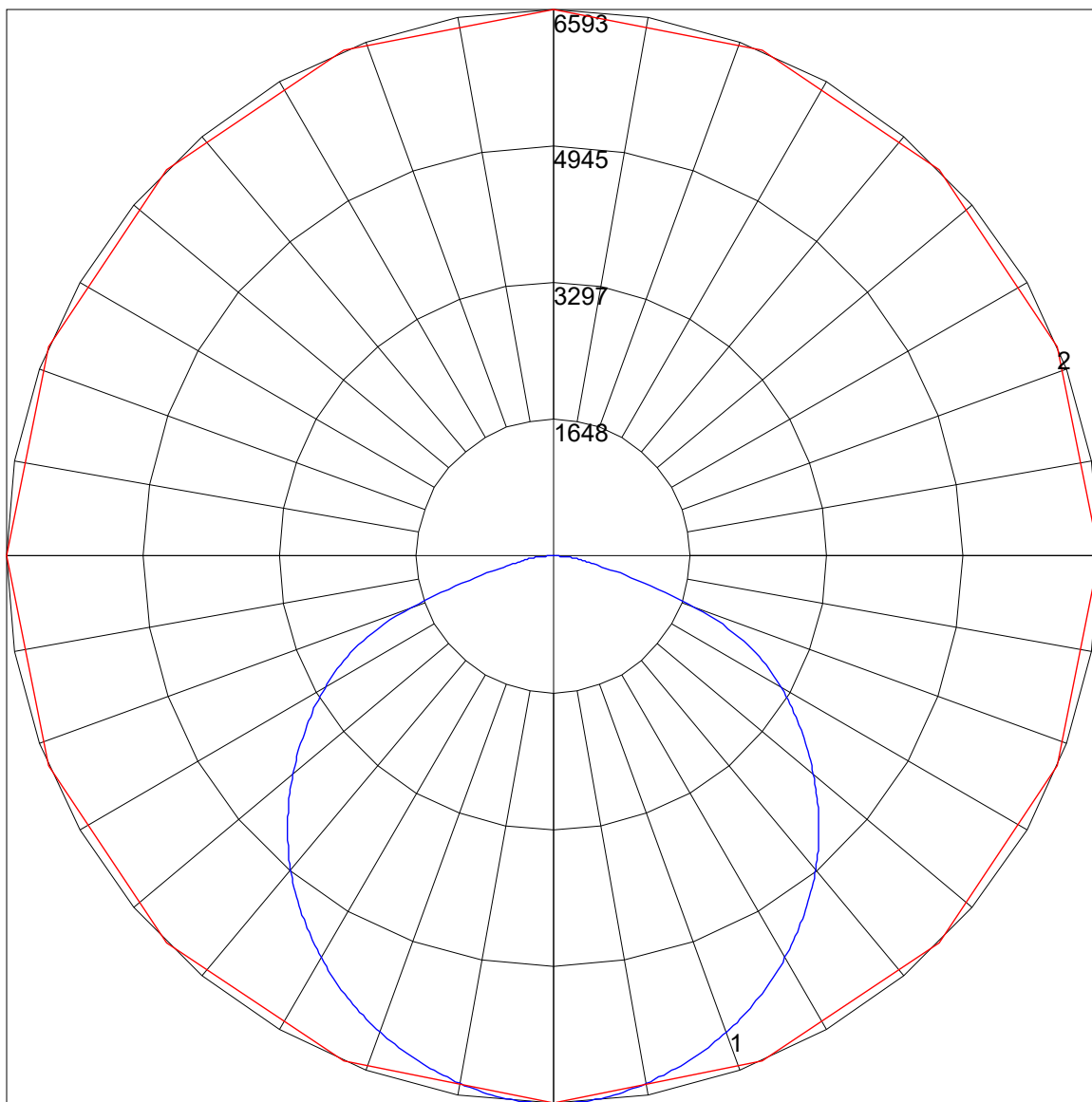
Reflectances

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	21.4	23.0	21.8	23.3	23.7	22.8	24.5	23.2	24.8	25.1
	3H	22.9	24.4	23.3	24.7	25.1	24.7	26.2	25.1	26.5	26.9
	4H	23.5	24.9	23.9	25.2	25.6	25.1	26.5	25.5	26.8	27.2
	6H	23.8	25.1	24.2	25.5	25.9	25.2	26.5	25.6	26.9	27.3
	8H	23.9	25.2	24.4	25.5	25.9	25.3	26.5	25.7	26.9	27.3
	12H	24.0	25.2	24.4	25.5	26.0	25.3	26.5	25.7	26.9	27.3
4H	2H	22.3	23.7	22.7	24.1	24.4	23.4	24.8	23.8	25.2	25.5
	3H	24.1	25.3	24.5	25.7	26.1	25.5	26.7	25.9	27.1	27.5
	4H	24.8	25.8	25.2	26.2	26.7	26.0	27.0	26.4	27.4	27.9
	6H	25.3	26.2	25.7	26.6	27.1	26.2	27.1	26.7	27.6	28.0
	8H	25.4	26.3	25.9	26.7	27.2	26.3	27.1	26.7	27.6	28.0
	12H	25.5	26.3	26.0	26.8	27.2	26.4	27.1	26.8	27.6	28.1
8H	4H	25.2	26.1	25.7	26.5	27.0	26.3	27.1	26.7	27.6	28.0
	6H	25.8	26.6	26.3	27.1	27.5	26.6	27.3	27.1	27.8	28.2
	8H	26.1	26.7	26.6	27.2	27.7	26.7	27.3	27.2	27.8	28.3
	12H	26.3	26.8	26.8	27.3	27.9	26.8	27.4	27.3	27.9	28.4
12H	4H	25.2	26.0	25.7	26.5	27.0	26.3	27.1	26.8	27.5	28.0
	6H	25.9	26.6	26.4	27.0	27.6	26.6	27.3	27.1	27.7	28.3
	8H	26.2	26.8	26.7	27.3	27.8	26.8	27.3	27.3	27.8	28.4

Maximum UGR = 28.4

POLAR GRAPH



Maximum Candela = 6593.055 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.)