



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : PBL V2 4 HI 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 HI 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 D21CC80UNVPW-C LED driver labeled at 1680mA

[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	22151
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	149
Total Luminaire Watts	148.3
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	21480	22790	23793
55	18958	22027	23615
65	15734	21270	23225
75	12130	19156	12897
85	8109	12877	9810

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	2887.33	N.A.	13.00
0-30	6123.26	N.A.	27.60
0-40	10015.34	N.A.	45.20
0-60	17620.77	N.A.	79.50
0-80	21782.75	N.A.	98.30
0-90	22147.18	N.A.	100.00
10-90	21398.26	N.A.	96.60
20-40	7128.01	N.A.	32.20
20-50	11139.37	N.A.	50.30
40-70	10352.49	N.A.	46.70
60-80	4161.98	N.A.	18.80
70-80	1414.91	N.A.	6.40
80-90	364.44	N.A.	1.60
90-110	3.77	N.A.	0.00
90-120	3.77	N.A.	0.00
90-130	3.77	N.A.	0.00
90-150	3.77	N.A.	0.00
90-180	3.77	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	22150.96	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	748.92
10-20	2138.41
20-30	3235.93
30-40	3892.08
40-50	4011.36
50-60	3594.07
60-70	2747.07
70-80	1414.91
80-90	364.44
90-100	3.67
100-110	0.10
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

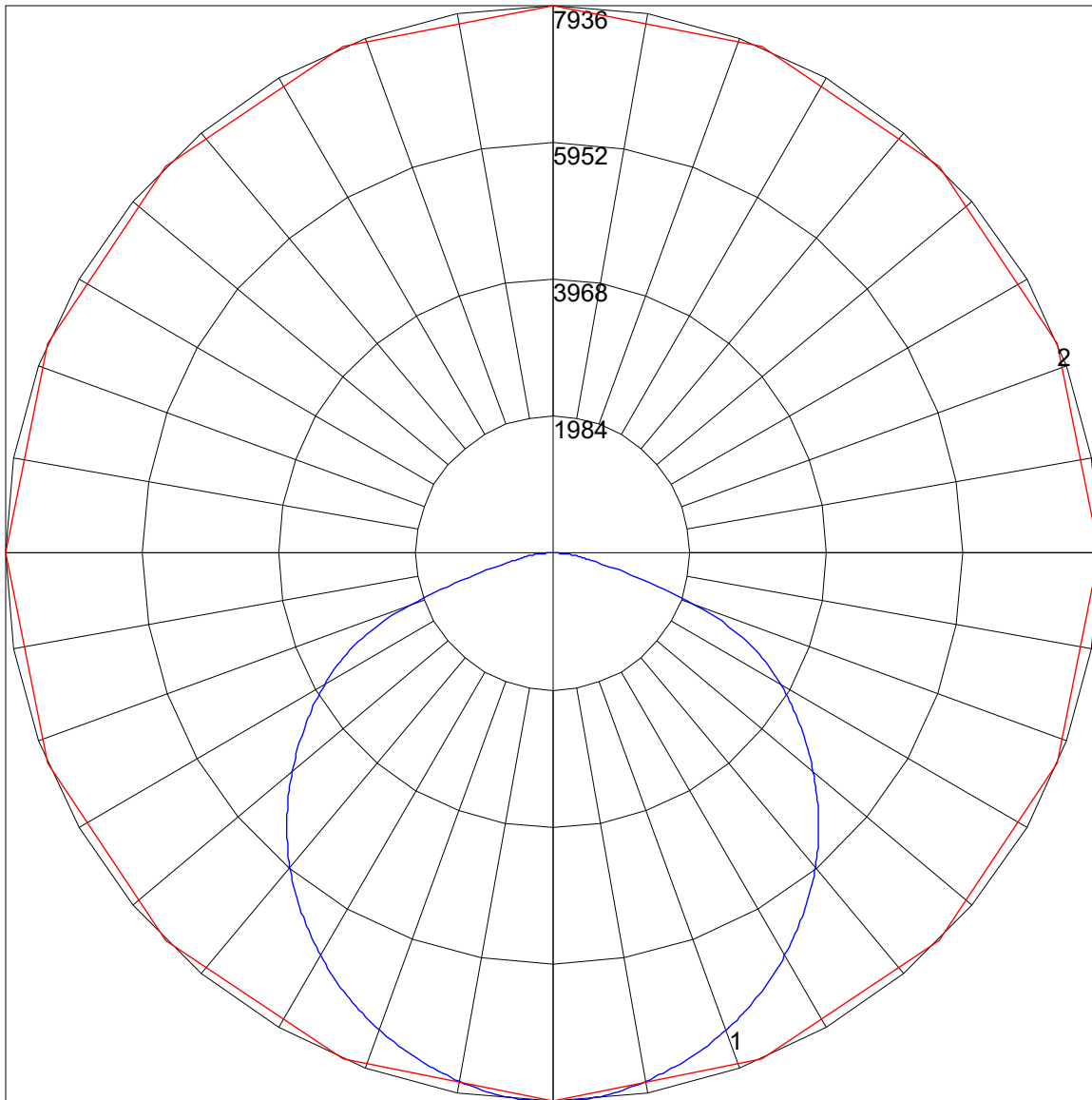
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**UGR TABLE - CORRECTED**

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	22.1	23.7	22.5	24.0	24.4	23.5	25.2	23.9	25.5	25.8
	3H	23.6	25.1	24.0	25.4	25.8	25.4	26.9	25.8	27.2	27.6
	4H	24.2	25.6	24.6	25.9	26.3	25.8	27.2	26.2	27.5	27.9
	6H	24.5	25.8	24.9	26.2	26.6	25.9	27.2	26.3	27.6	28.0
	8H	24.6	25.9	25.1	26.2	26.6	26.0	27.2	26.4	27.6	28.0
	12H	24.7	25.9	25.1	26.2	26.7	26.0	27.2	26.4	27.6	28.0
4H	2H	23.0	24.4	23.4	24.8	25.1	24.1	25.5	24.5	25.9	26.2
	3H	24.8	26.0	25.2	26.4	26.8	26.2	27.4	26.6	27.8	28.2
	4H	25.5	26.5	25.9	26.9	27.4	26.7	27.7	27.1	28.1	28.6
	6H	26.0	26.9	26.4	27.3	27.8	26.9	27.8	27.4	28.3	28.7
	8H	26.1	27.0	26.6	27.4	27.9	27.0	27.8	27.4	28.3	28.7
	12H	26.2	27.0	26.7	27.5	27.9	27.1	27.8	27.5	28.3	28.8
8H	4H	25.9	26.8	26.4	27.2	27.7	27.0	27.8	27.4	28.3	28.7
	6H	26.5	27.3	27.0	27.8	28.2	27.3	28.0	27.8	28.5	28.9
	8H	26.8	27.4	27.3	27.9	28.4	27.4	28.0	27.9	28.5	29.0
	12H	27.0	27.5	27.5	28.0	28.6	27.5	28.1	28.0	28.6	29.1
12H	4H	25.9	26.7	26.4	27.2	27.7	27.0	27.8	27.5	28.2	28.7
	6H	26.6	27.3	27.1	27.7	28.3	27.3	28.0	27.8	28.4	29.0
	8H	26.9	27.5	27.4	28.0	28.5	27.5	28.0	28.0	28.5	29.1

Maximum UGR = 29.1

POLAR GRAPH



Maximum Candela = 7935.539 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.)