



IES INDOOR REPORT

PHOTOMETRIC FILENAME : PBL V2 4 SL UV 850.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LLIA001687-017

[TESTLAB] LightLab International Allentown, LLC

[ISSUE DATE] 4/19/2022

[MANUFAC] Lumen Focus, LLC

[LUMCAT] PBL V2 4 SL UV 850

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

[MORE] no enclosure.

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

[BALLAST] One ULT D21CC80UNVPW-C LED driver labeled at 1640mA

[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	12029
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	173
Total Luminaire Watts	69.5
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	12987	12472	12540
55	12784	12187	12459
65	12122	11761	12391
75	10191	11887	1653
85	5160	2464	2768

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1522.01	N.A.	12.70
0-30	3247.79	N.A.	27.00
0-40	5356.75	N.A.	44.50
0-60	9625.35	N.A.	80.00
0-80	11913.6	N.A.	99.00
0-90	12026.93	N.A.	100.00
10-90	11633.37	N.A.	96.70
20-40	3834.74	N.A.	31.90
20-50	6056.66	N.A.	50.40
40-70	5881.9	N.A.	48.90
60-80	2288.25	N.A.	19.00
70-80	674.94	N.A.	5.60
80-90	113.33	N.A.	0.90
90-110	1.69	N.A.	0.00
90-120	1.69	N.A.	0.00
90-130	1.69	N.A.	0.00
90-150	1.69	N.A.	0.00
90-180	1.69	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	12028.62	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	393.55
10-20	1128.46
20-30	1725.78
30-40	2108.96
40-50	2221.92
50-60	2046.68
60-70	1613.31
70-80	674.94
80-90	113.33
90-100	1.66
100-110	0.03
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

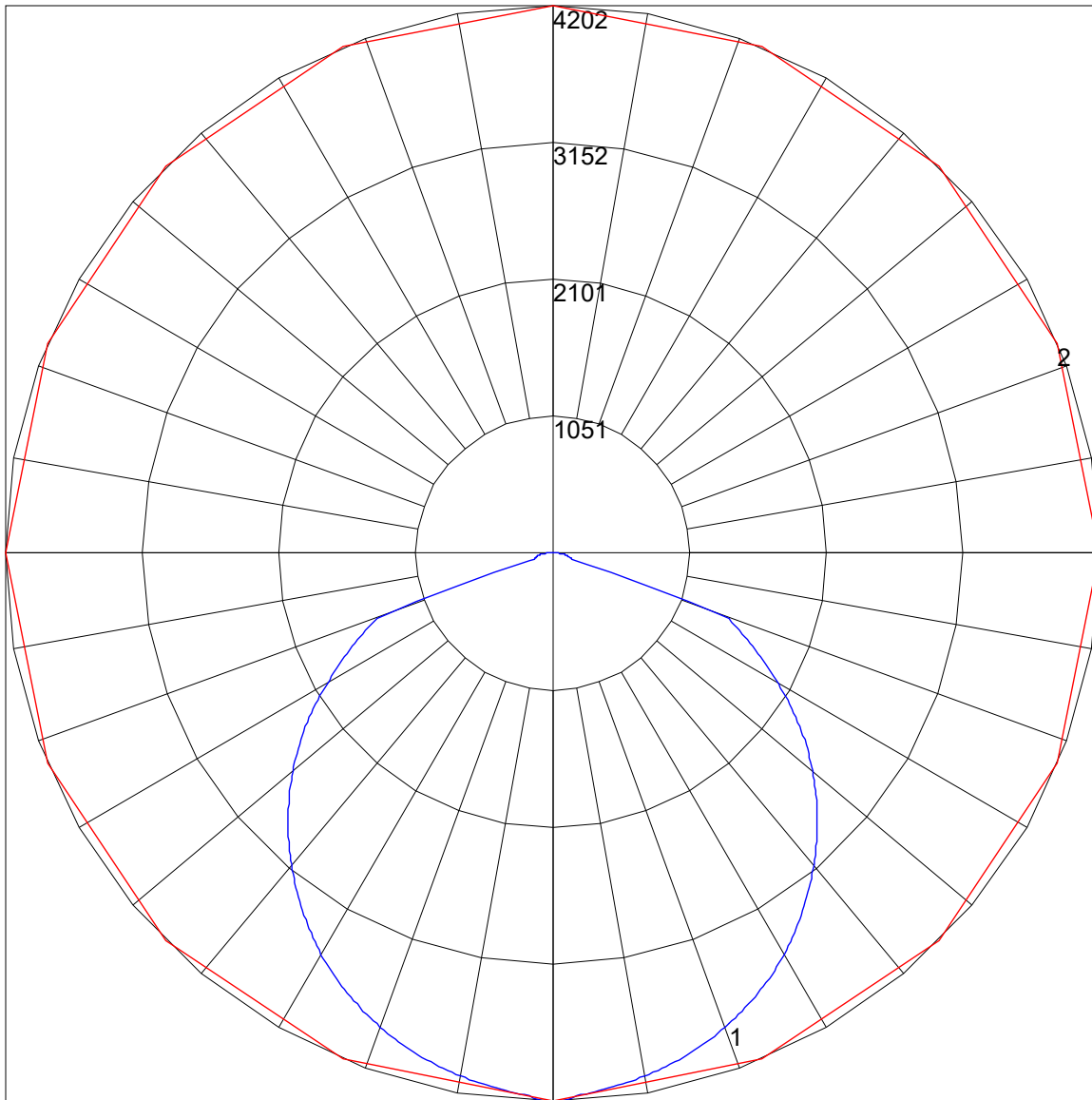
Reflectances

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	21.1	22.7	21.4	23.0	23.3	21.3	22.9	21.6	23.2	23.5
	3H	23.0	24.4	23.3	24.8	25.1	23.4	24.9	23.8	25.2	25.6
	4H	23.7	25.0	24.1	25.4	25.8	23.4	24.8	23.8	25.1	25.5
	6H	24.1	25.4	24.5	25.8	26.1	23.3	24.6	23.8	25.0	25.4
	8H	24.2	25.4	24.7	25.8	26.2	23.3	24.6	23.8	24.9	25.3
	12H	24.2	25.4	24.7	25.8	26.2	23.3	24.5	23.7	24.9	25.3
4H	2H	21.8	23.1	22.2	23.5	23.9	21.9	23.3	22.3	23.6	24.0
	3H	23.9	25.0	24.3	25.4	25.8	24.3	25.5	24.7	25.9	26.3
	4H	24.7	25.7	25.1	26.1	26.5	24.3	25.3	24.7	25.7	26.2
	6H	25.2	26.2	25.7	26.6	27.0	24.3	25.2	24.7	25.6	26.1
	8H	25.4	26.3	25.9	26.7	27.2	24.3	25.1	24.7	25.5	26.0
	12H	25.5	26.2	25.9	26.7	27.2	24.3	25.0	24.7	25.5	26.0
8H	4H	24.9	25.7	25.3	26.2	26.6	24.5	25.3	25.0	25.8	26.3
	6H	25.5	26.2	26.0	26.7	27.2	24.5	25.2	25.0	25.7	26.1
	8H	25.7	26.4	26.2	26.9	27.3	24.5	25.1	25.0	25.6	26.1
	12H	25.8	26.3	26.3	26.8	27.4	24.5	25.0	25.0	25.5	26.1
12H	4H	24.8	25.6	25.3	26.1	26.5	24.5	25.3	25.0	25.7	26.2
	6H	25.5	26.1	26.0	26.6	27.1	24.5	25.1	25.0	25.6	26.1
	8H	25.7	26.3	26.2	26.8	27.3	24.5	25.0	25.0	25.5	26.1

Maximum UGR = 27.4

POLAR GRAPH



Maximum Candela = 4202.125 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.)