



IES INDOOR REPORT

PHOTOMETRIC FILENAME : PBL V2 4 VL UV 850.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LLIA001687-017

[TESTLAB] LightLab International Allentown, LLC

[ISSUEDATE] 4/19/2022

[MANUFAC] Lumen Focus, LLC

[LUMCAT] PBL V2 4 VL 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 1940mA

[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	14144
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	170
Total Luminaire Watts	83.1
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	15271	14665	14746
55	15033	14331	14650
65	14254	13830	14570
75	11984	13978	1944
85	6068	2897	3254

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1789.73	N.A.	12.70
0-30	3819.06	N.A.	27.00
0-40	6298.98	N.A.	44.50
0-60	11318.41	N.A.	80.00
0-80	14009.15	N.A.	99.00
0-90	14142.41	N.A.	100.00
10-90	13679.64	N.A.	96.70
20-40	4509.25	N.A.	31.90
20-50	7122.00	N.A.	50.40
40-70	6916.51	N.A.	48.90
60-80	2690.74	N.A.	19.00
70-80	793.66	N.A.	5.60
80-90	133.26	N.A.	0.90
90-110	1.99	N.A.	0.00
90-120	1.99	N.A.	0.00
90-130	1.99	N.A.	0.00
90-150	1.99	N.A.	0.00
90-180	1.99	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	14144.4	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	462.78
10-20	1326.95
20-30	2029.33
30-40	2479.92
40-50	2612.74
50-60	2406.68
60-70	1897.08
70-80	793.66
80-90	133.26
90-100	1.95
100-110	0.04
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

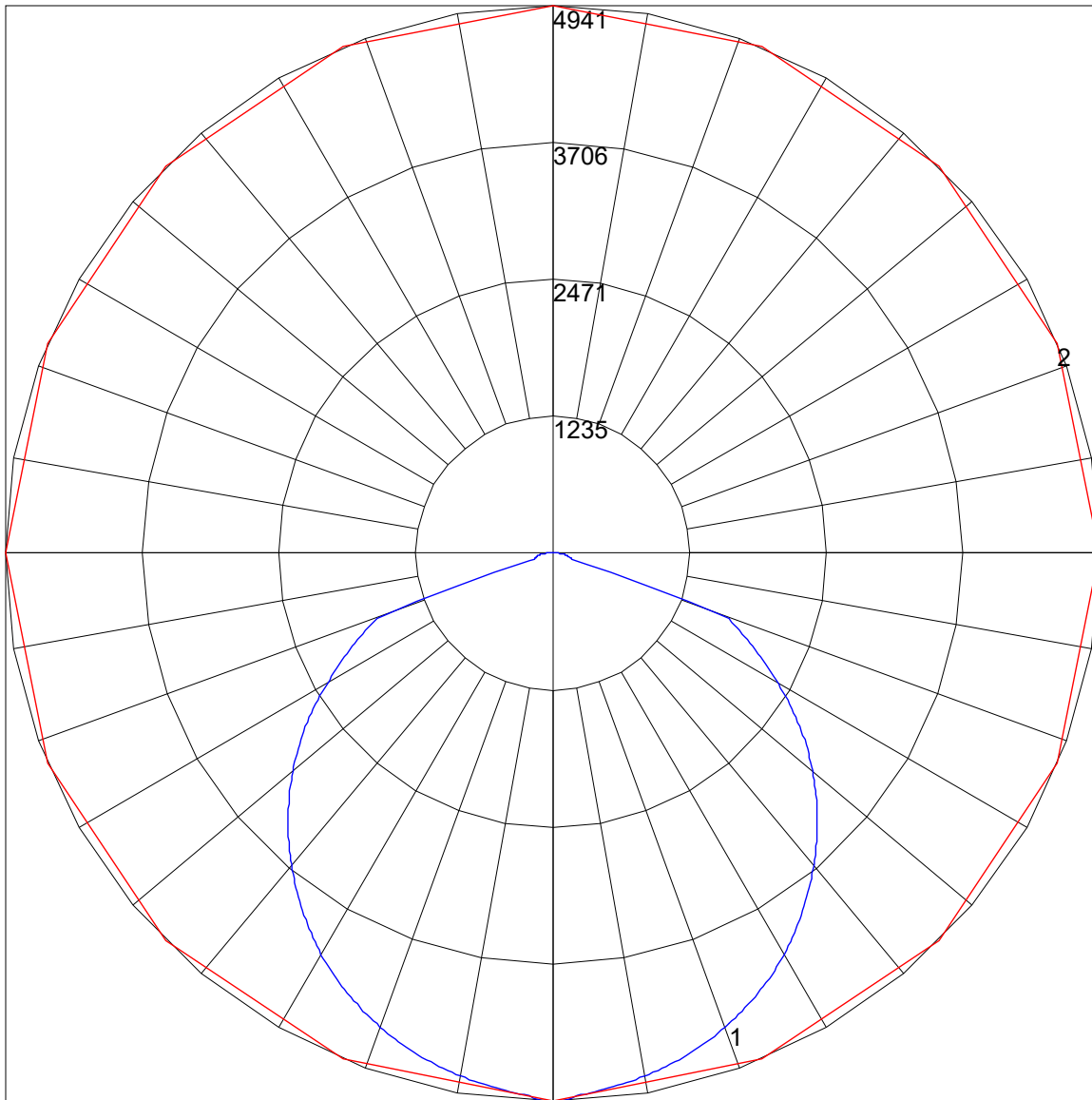
Reflectances

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	21.6	23.2	21.9	23.5	23.8	21.8	23.4	22.1	23.7	24.0
	3H	23.5	24.9	23.8	25.3	25.6	23.9	25.4	24.3	25.7	26.1
	4H	24.2	25.5	24.6	25.9	26.3	23.9	25.3	24.3	25.6	26.0
	6H	24.6	25.9	25.0	26.3	26.6	23.8	25.1	24.3	25.5	25.9
	8H	24.7	25.9	25.2	26.3	26.7	23.8	25.1	24.3	25.4	25.8
	12H	24.7	25.9	25.2	26.3	26.7	23.8	25.0	24.2	25.4	25.8
4H	2H	22.3	23.6	22.7	24.0	24.4	22.4	23.8	22.8	24.1	24.5
	3H	24.4	25.5	24.8	25.9	26.3	24.8	26.0	25.2	26.4	26.8
	4H	25.2	26.2	25.6	26.6	27.0	24.8	25.8	25.2	26.2	26.7
	6H	25.7	26.7	26.2	27.1	27.5	24.8	25.7	25.2	26.1	26.6
	8H	25.9	26.8	26.4	27.2	27.7	24.8	25.6	25.2	26.0	26.5
	12H	26.0	26.7	26.4	27.2	27.7	24.8	25.5	25.2	26.0	26.5
8H	4H	25.4	26.2	25.8	26.7	27.1	25.0	25.8	25.5	26.3	26.8
	6H	26.0	26.7	26.5	27.2	27.7	25.0	25.7	25.5	26.2	26.6
	8H	26.2	26.9	26.7	27.4	27.8	25.0	25.6	25.5	26.1	26.6
	12H	26.3	26.8	26.8	27.3	27.9	25.0	25.5	25.5	26.0	26.6
12H	4H	25.3	26.1	25.8	26.6	27.0	25.0	25.8	25.5	26.2	26.7
	6H	26.0	26.6	26.5	27.1	27.6	25.0	25.6	25.5	26.1	26.6
	8H	26.2	26.8	26.7	27.3	27.8	25.0	25.5	25.5	26.0	26.6

Maximum UGR = 27.9

POLAR GRAPH



Maximum Candela = 4941.261 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.)