



IES INDOOR REPORT

PHOTOMETRIC FILENAME : PBL V2 4 HI UV 835.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 HI UV 835

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

[MORE] no enclosure.

[LAMP] 336 white LEDs, four ULT M900C835D84N2Q LED boards

[BALLAST] Two ULT D21CC80UNVPW-C LED driver labeled at 1680mA

[OTHER] 120.0Vac, 60.00Hz, 1.246A, 149.1W, 0.998PF, 5.4%THD(i)

[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	23842
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	160
Total Luminaire Watts	149.14
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	25741	24720	24855
55	25339	24156	24694
65	24027	23311	24559
75	20200	23561	3277
85	10228	4884	5486

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	3016.77	N.A.	12.70
0-30	6437.42	N.A.	27.00
0-40	10617.58	N.A.	44.50
0-60	19078.33	N.A.	80.00
0-80	23613.86	N.A.	99.00
0-90	23838.49	N.A.	100.00
10-90	23058.42	N.A.	96.70
20-40	7600.81	N.A.	31.90
20-50	12004.85	N.A.	50.40
40-70	11658.48	N.A.	48.90
60-80	4535.52	N.A.	19.00
70-80	1337.8	N.A.	5.60
80-90	224.63	N.A.	0.90
90-110	3.35	N.A.	0.00
90-120	3.35	N.A.	0.00
90-130	3.35	N.A.	0.00
90-150	3.35	N.A.	0.00
90-180	3.35	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	23841.83	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	780.06
10-20	2236.71
20-30	3420.65
30-40	4180.16
40-50	4404.05
50-60	4056.71
60-70	3197.72
70-80	1337.8
80-90	224.63
90-100	3.28
100-110	0.07
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

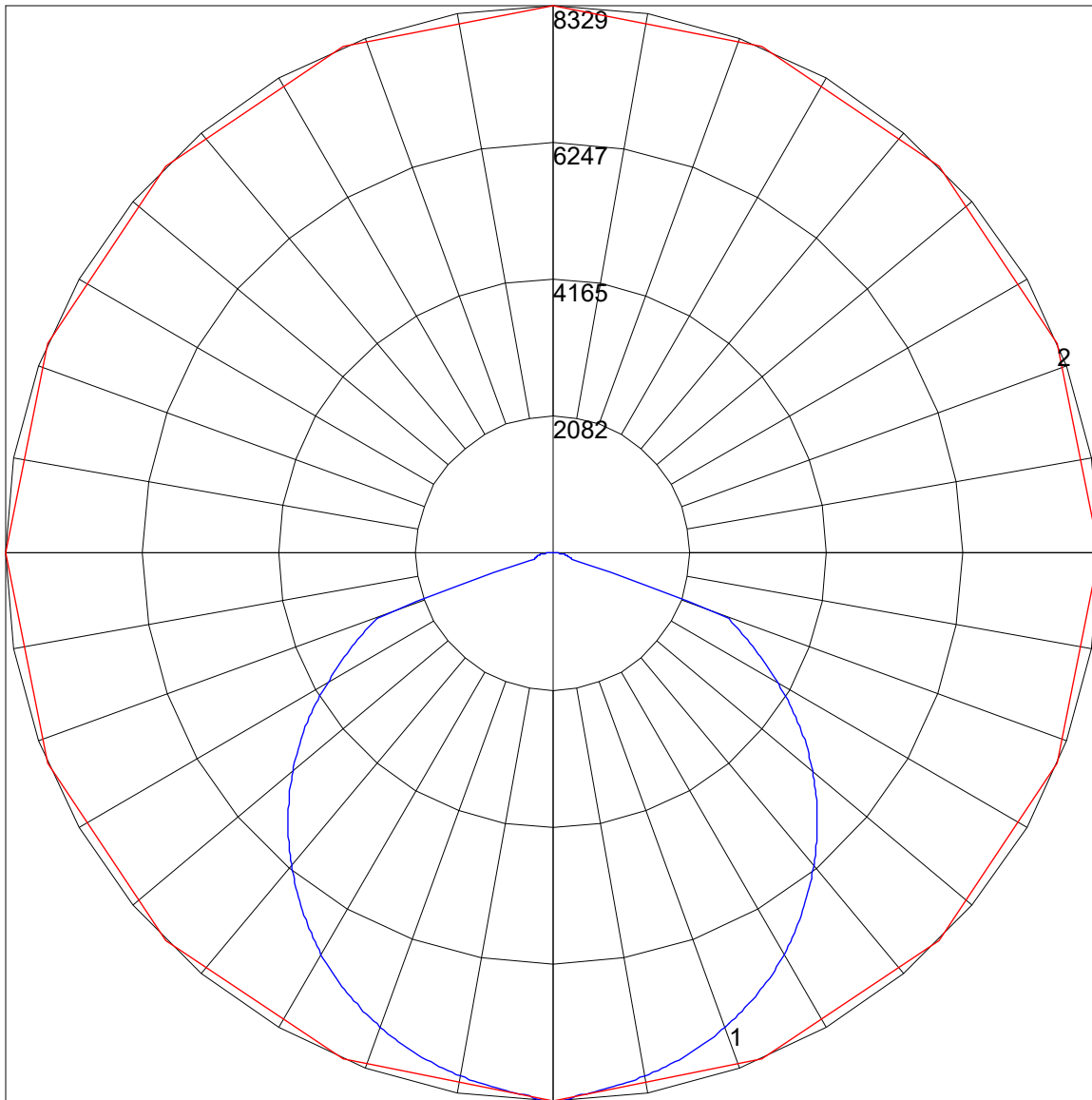
Reflectances

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	23.4	25.0	23.7	25.3	25.6	23.6	25.2	23.9	25.5	25.8
	3H	25.3	26.7	25.6	27.1	27.4	25.7	27.2	26.1	27.5	27.9
	4H	26.0	27.3	26.4	27.7	28.1	25.7	27.1	26.1	27.4	27.8
	6H	26.4	27.7	26.8	28.1	28.4	25.7	26.9	26.1	27.3	27.7
	8H	26.5	27.7	27.0	28.1	28.5	25.6	26.9	26.1	27.2	27.6
	12H	26.5	27.7	27.0	28.1	28.5	25.6	26.8	26.0	27.2	27.6
4H	2H	24.1	25.5	24.5	25.8	26.2	24.2	25.6	24.6	25.9	26.3
	3H	26.2	27.3	26.6	27.7	28.1	26.6	27.8	27.0	28.2	28.6
	4H	27.0	28.0	27.4	28.4	28.8	26.6	27.6	27.0	28.0	28.5
	6H	27.5	28.5	28.0	28.9	29.3	26.6	27.5	27.0	27.9	28.4
	8H	27.7	28.6	28.2	29.0	29.5	26.6	27.4	27.0	27.8	28.3
	12H	27.8	28.5	28.2	29.0	29.5	26.6	27.3	27.0	27.8	28.3
8H	4H	27.2	28.0	27.6	28.5	28.9	26.8	27.6	27.3	28.1	28.6
	6H	27.8	28.5	28.3	29.0	29.5	26.8	27.5	27.3	28.0	28.4
	8H	28.0	28.7	28.5	29.2	29.6	26.8	27.4	27.3	27.9	28.4
	12H	28.1	28.6	28.6	29.1	29.7	26.8	27.3	27.3	27.8	28.4
12H	4H	27.1	27.9	27.6	28.4	28.8	26.8	27.6	27.3	28.0	28.5
	6H	27.8	28.4	28.3	28.9	29.4	26.8	27.4	27.3	27.9	28.4
	8H	28.0	28.6	28.5	29.1	29.6	26.8	27.3	27.3	27.8	28.4

Maximum UGR = 29.7

POLAR GRAPH



Maximum Candela = 8329 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.)