



IES INDOOR REPORT

PHOTOMETRIC FILENAME : PBL V2 4 VL UV FR 840.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 VL UV FR 840

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

[MORE] two curved translucent plastic enclosures.

[LAMP] 336 white LEDs, four ULT M900C840D84N2Q 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	13142
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	158
Total Luminaire Watts	83.1
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	12744	13521	14116
55	11248	13068	14010
65	9335	12620	13779
75	7196	11365	7651
85	4811	7640	5820

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1713.03	N.A.	13.00
0-30	3632.87	N.A.	27.60
0-40	5942.01	N.A.	45.20
0-60	10454.24	N.A.	79.50
0-80	12923.5	N.A.	98.30
0-90	13139.72	N.A.	100.00
10-90	12695.39	N.A.	96.60
20-40	4228.98	N.A.	32.20
20-50	6608.89	N.A.	50.30
40-70	6142.04	N.A.	46.70
60-80	2469.26	N.A.	18.80
70-80	839.45	N.A.	6.40
80-90	216.22	N.A.	1.60
90-110	2.24	N.A.	0.00
90-120	2.24	N.A.	0.00
90-130	2.24	N.A.	0.00
90-150	2.24	N.A.	0.00
90-180	2.24	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	13141.96	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	444.33
10-20	1268.7
20-30	1919.85
30-40	2309.14
40-50	2379.9
50-60	2132.33
60-70	1629.81
70-80	839.45
80-90	216.22
90-100	2.18
100-110	0.06
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

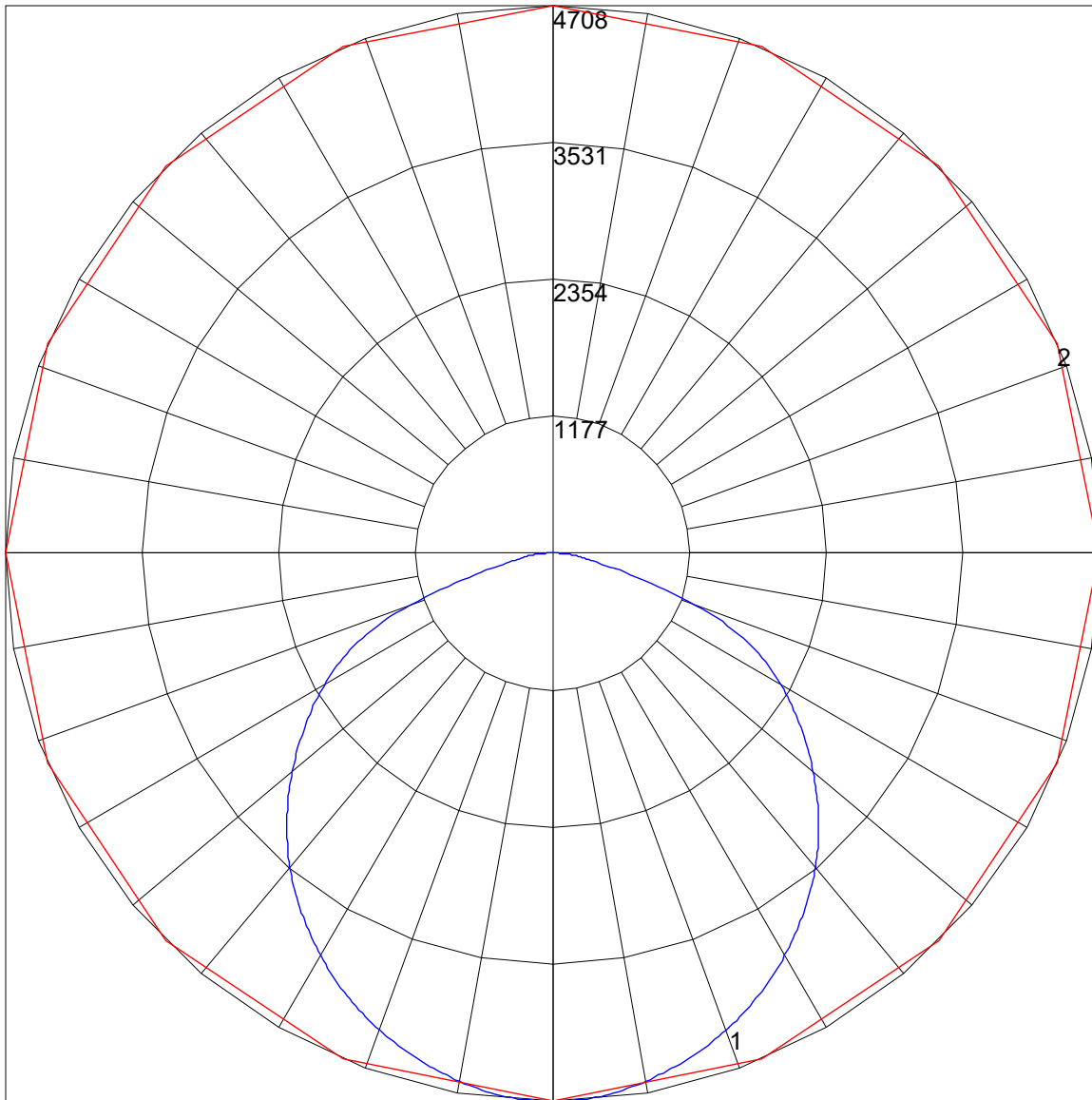
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UGR TABLE - CORRECTED

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	20.3	21.9	20.7	22.2	22.6	21.7	23.4	22.1	23.7	24.0
	3H	21.8	23.3	22.2	23.6	24.0	23.6	25.1	24.0	25.4	25.8
	4H	22.4	23.8	22.8	24.1	24.5	24.0	25.4	24.4	25.7	26.1
	6H	22.7	24.0	23.1	24.4	24.8	24.1	25.4	24.5	25.8	26.2
	8H	22.8	24.1	23.3	24.4	24.8	24.2	25.4	24.6	25.8	26.2
	12H	22.9	24.1	23.3	24.4	24.9	24.2	25.4	24.6	25.8	26.2
4H	2H	21.2	22.6	21.6	23.0	23.3	22.3	23.7	22.7	24.1	24.4
	3H	23.0	24.2	23.4	24.6	25.0	24.4	25.6	24.8	26.0	26.4
	4H	23.7	24.7	24.1	25.1	25.6	24.9	25.9	25.3	26.3	26.8
	6H	24.2	25.1	24.6	25.5	26.0	25.1	26.0	25.6	26.5	26.9
	8H	24.3	25.2	24.8	25.6	26.1	25.2	26.0	25.6	26.5	26.9
	12H	24.4	25.2	24.9	25.7	26.1	25.3	26.0	25.7	26.5	27.0
8H	4H	24.1	25.0	24.6	25.4	25.9	25.2	26.0	25.6	26.5	26.9
	6H	24.7	25.5	25.2	26.0	26.4	25.5	26.2	26.0	26.7	27.1
	8H	25.0	25.6	25.5	26.1	26.6	25.6	26.2	26.1	26.7	27.2
	12H	25.2	25.7	25.7	26.2	26.8	25.7	26.3	26.2	26.8	27.3
12H	4H	24.1	24.9	24.6	25.4	25.9	25.2	26.0	25.7	26.4	26.9
	6H	24.8	25.5	25.3	25.9	26.5	25.5	26.2	26.0	26.6	27.2
	8H	25.1	25.7	25.6	26.2	26.7	25.7	26.2	26.2	26.7	27.3

Maximum UGR = 27.3

POLAR GRAPH



Maximum Candela = 4708.082 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.)