



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : PBL V2 2W VH UV 835-WG.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LLIA001687-012

[TESTLAB] LightLab International Allentown, LLC

[ISSUE DATE] 4/19/2022

[MANUFAC] Lumen Focus, LLC

[LUMCAT] PBL V2 2W VH UV 835-WG

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

[MORE] white painted steel wireguard.

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

[BALLAST] Two ULT D15CC55UNVPW-C LED drivers labeled at 1380mA

[OTHER] 120.0Vac, 60.00Hz, 1.018A, 121.3W, 0.993PF, 6.9%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	18684
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	154
Total Luminaire Watts	121.26
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.30
Spacing Criterion (90-270)	1.16
Spacing Criterion (Diagonal)	1.22
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	2.00 ft
Luminous Width (90-270)	1.26 ft
Luminous Height	0.06 ft

### LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	27767	19041	27284
55	26243	25792	26422
65	23211	23321	23839
75	17409	19472	12645
85	7056	7557	9067

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	2489.23	N.A.	13.30
0-30	5312.69	N.A.	28.40
0-40	8385.62	N.A.	44.90
0-60	14872.2	N.A.	79.60
0-80	18365.64	N.A.	98.30
0-90	18639.61	N.A.	99.80
10-90	17997.37	N.A.	96.30
20-40	5896.38	N.A.	31.60
20-50	9148.71	N.A.	49.00
40-70	8773.73	N.A.	47.00
60-80	3493.44	N.A.	18.70
70-80	1206.3	N.A.	6.50
80-90	273.97	N.A.	1.50
90-110	43.93	N.A.	0.20
90-120	44.48	N.A.	0.20
90-130	44.48	N.A.	0.20
90-150	44.48	N.A.	0.20
90-180	44.48	N.A.	0.20
110-180	0.55	N.A.	0.00
0-180	18684.1	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	642.24
10-20	1846.99
20-30	2823.46
30-40	3072.93
40-50	3252.32
50-60	3234.26
60-70	2287.14
70-80	1206.3
80-90	273.97
90-100	37.28
100-110	6.65
110-120	0.55
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	52	50
5	76	63	54	47	74	62	54	47	60	52	47	58	51	46	56	50	46	43
6	70	57	48	41	68	56	47	41	54	46	41	52	46	40	51	45	40	38
7	65	52	43	37	63	51	42	36	49	42	36	48	41	36	46	40	36	34
8	61	47	39	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	27	37	31	26	36	31	26	24

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**UGR TABLE - CORRECTED**

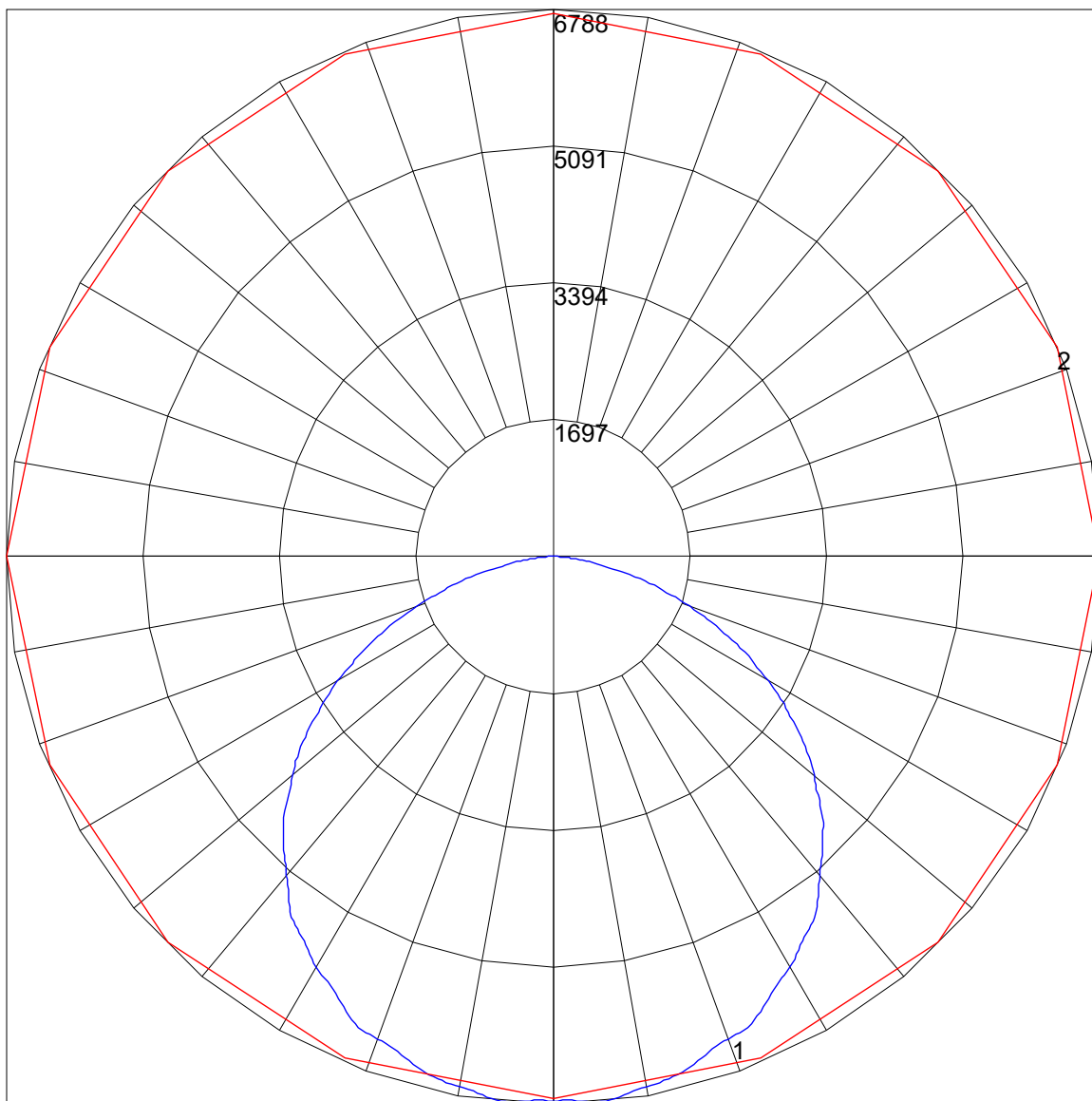
Reflectances

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	22.2	23.8	22.6	24.1	24.5	24.0	25.6	24.3	25.9	26.2
	3H	24.4	25.9	24.8	26.2	26.6	25.9	27.3	26.3	27.7	28.1
	4H	25.1	26.5	25.5	26.8	27.2	26.0	27.4	26.4	27.8	28.2
	6H	25.5	26.7	25.9	27.1	27.5	26.1	27.4	26.5	27.8	28.2
	8H	25.5	26.7	26.0	27.1	27.6	26.1	27.4	26.6	27.8	28.2
	12H	25.5	26.7	26.0	27.1	27.6	26.2	27.3	26.6	27.7	28.2
4H	2H	23.2	24.6	23.6	25.0	25.4	24.6	25.9	25.0	26.3	26.7
	3H	25.5	26.6	25.9	27.1	27.5	26.7	27.8	27.1	28.2	28.7
	4H	26.2	27.3	26.7	27.7	28.2	26.9	27.9	27.3	28.3	28.8
	6H	26.7	27.6	27.1	28.0	28.5	27.0	27.9	27.5	28.3	28.8
	8H	26.8	27.6	27.2	28.1	28.6	27.0	27.9	27.5	28.3	28.8
	12H	26.8	27.6	27.3	28.0	28.5	27.1	27.9	27.6	28.4	28.9
8H	4H	26.5	27.4	27.0	27.8	28.3	27.1	27.9	27.5	28.4	28.8
	6H	27.0	27.7	27.5	28.2	28.7	27.2	27.9	27.7	28.4	28.9
	8H	27.2	27.8	27.7	28.3	28.8	27.3	28.0	27.9	28.5	29.0
	12H	27.2	27.8	27.7	28.3	28.9	27.4	28.0	28.0	28.5	29.1
12H	4H	26.5	27.3	27.0	27.8	28.3	27.1	27.8	27.5	28.3	28.8
	6H	27.0	27.6	27.6	28.1	28.7	27.3	27.9	27.8	28.3	28.9
	8H	27.2	27.7	27.7	28.3	28.8	27.4	27.9	27.9	28.4	29.0

Maximum UGR = 29.1

POLAR GRAPH



Maximum Candela = 6788 Located At Horizontal Angle = 0, Vertical Angle = 5  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)