



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : PBL V2 4 VH UV 840.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 VH UV 840

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

[MORE] no enclosure.

[LAMP] 336 white LEDs, four ULT M900C840D84N2Q LED boards

[BALLAST] Two ULT D21CC80UNVPW-C LED driver labeled at 1970mA

[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	27781
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	157
Total Luminaire Watts	177.1
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	29994	28805	28962
55	29526	28148	28774
65	27997	27163	28617
75	23538	27454	3819
85	11918	5691	6392

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	3515.23	N.A.	12.70
0-30	7501.08	N.A.	27.00
0-40	12371.92	N.A.	44.50
0-60	22230.65	N.A.	80.00
0-80	27515.58	N.A.	99.00
0-90	27777.32	N.A.	100.00
10-90	26868.37	N.A.	96.70
20-40	8856.69	N.A.	31.90
20-50	13988.42	N.A.	50.40
40-70	13584.81	N.A.	48.90
60-80	5284.93	N.A.	19.00
70-80	1558.85	N.A.	5.60
80-90	261.74	N.A.	0.90
90-110	3.90	N.A.	0.00
90-120	3.90	N.A.	0.00
90-130	3.90	N.A.	0.00
90-150	3.90	N.A.	0.00
90-180	3.90	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	27781.22	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	908.95
10-20	2606.28
20-30	3985.84
30-40	4870.84
40-50	5131.73
50-60	4727.00
60-70	3726.08
70-80	1558.85
80-90	261.74
90-100	3.82
100-110	0.08
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

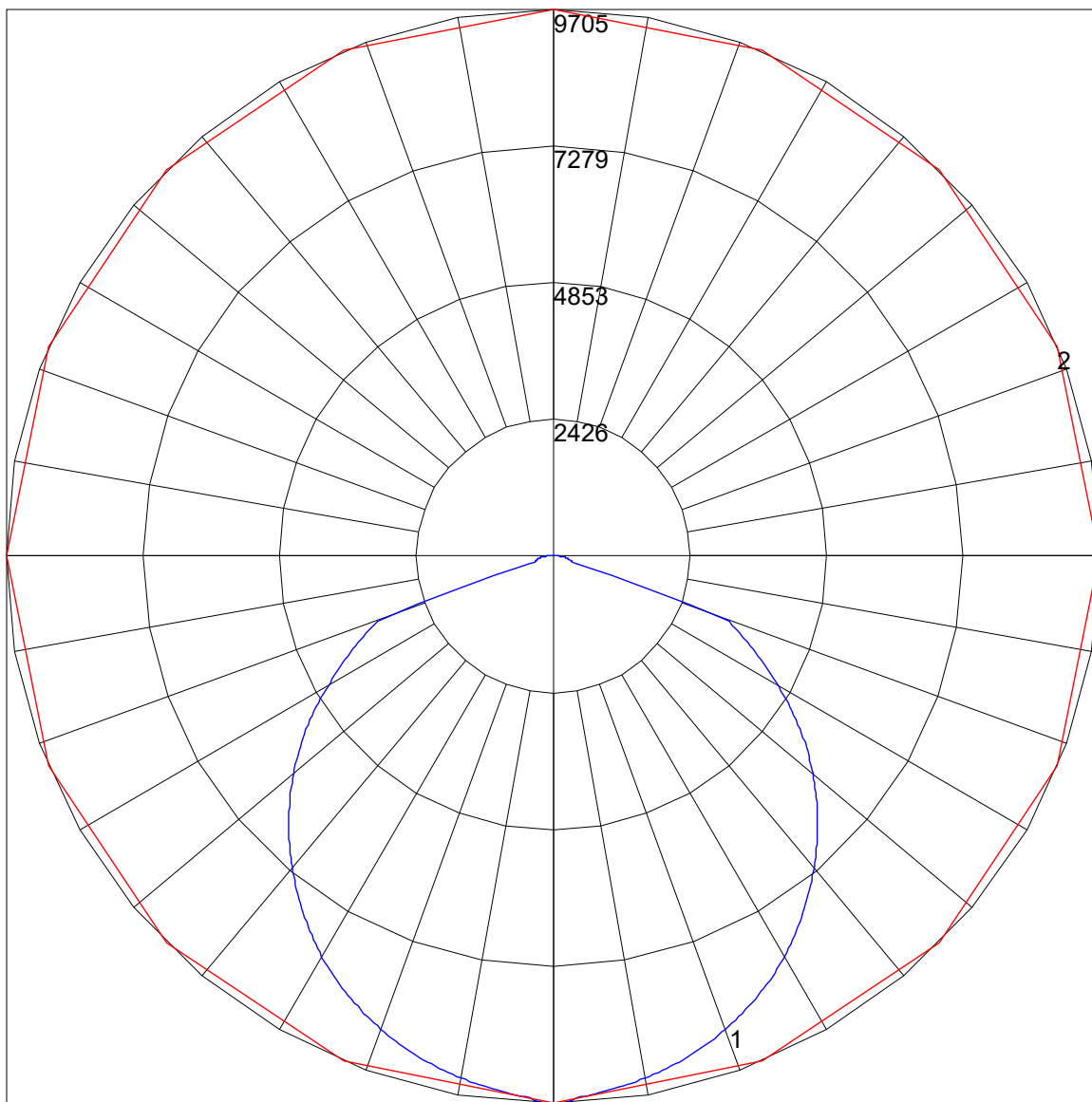
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**UGR TABLE - CORRECTED**

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	24.0	25.6	24.3	25.9	26.2	24.2	25.8	24.5	26.1	26.4
	3H	25.9	27.3	26.2	27.7	28.0	26.3	27.8	26.7	28.1	28.5
	4H	26.6	27.9	27.0	28.3	28.7	26.3	27.7	26.7	28.0	28.4
	6H	27.0	28.3	27.4	28.7	29.0	26.3	27.5	26.7	27.9	28.3
	8H	27.1	28.3	27.6	28.7	29.1	26.2	27.5	26.7	27.8	28.2
	12H	27.1	28.3	27.6	28.7	29.1	26.2	27.4	26.6	27.8	28.2
4H	2H	24.7	26.0	25.1	26.4	26.8	24.8	26.2	25.2	26.5	26.9
	3H	26.8	27.9	27.2	28.3	28.7	27.2	28.4	27.6	28.8	29.2
	4H	27.6	28.6	28.0	29.0	29.4	27.2	28.2	27.6	28.6	29.1
	6H	28.1	29.1	28.6	29.5	29.9	27.2	28.1	27.6	28.5	29.0
	8H	28.3	29.2	28.8	29.6	30.1	27.2	28.0	27.6	28.4	28.9
	12H	28.4	29.1	28.8	29.6	30.1	27.2	27.9	27.6	28.4	28.9
8H	4H	27.8	28.6	28.2	29.1	29.5	27.4	28.2	27.9	28.7	29.2
	6H	28.4	29.1	28.9	29.6	30.1	27.4	28.1	27.9	28.6	29.0
	8H	28.6	29.3	29.1	29.8	30.2	27.4	28.0	27.9	28.5	29.0
	12H	28.7	29.2	29.2	29.7	30.3	27.4	27.9	27.9	28.4	29.0
12H	4H	27.7	28.5	28.2	29.0	29.4	27.4	28.2	27.9	28.6	29.1
	6H	28.4	29.0	28.9	29.5	30.0	27.4	28.0	27.9	28.5	29.0
	8H	28.6	29.2	29.1	29.7	30.2	27.4	27.9	27.9	28.4	29.0

Maximum UGR = 30.3

POLAR GRAPH



Maximum Candela = 9705.201 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.)