



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : PBL A G2 4N VH UV 840.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LLIA001839-001

[TESTLAB] LightLab International Allentown, LLC

[ISSUE DATE] 8/26/2022

[MANUFAC] Lumen Focus, LLC

[LUMCAT] PBL A G2 4N VH UV 840

[LUMINAIRE] Surface/pendant mounted, formed white painted steel housing,

[MORE] formed specular aluminum reflector, no enclosure.

[LAMP] 224 white LEDs, two ULT Everline M12CC840D112N2U LED boards with 112

[MORE] LEDs each

[BALLAST] One ULT Everline D21CC80UNVPW-C LED driver labeled as 1740mA

[OTHER] 120.0Vac, 60.00Hz, 0.7227A, 86.53W, 0.998PF, 5.5%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	14346
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	166
Total Luminaire Watts	86.53
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.28
Spacing Criterion (90-270)	1.04
Spacing Criterion (Diagonal)	1.20
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	3.83 ft
Luminous Width (90-270)	0.34 ft
Luminous Height	0.24 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	58245	26345	1631
55	54753	1987	93
65	48370	368	5018
75	36501	3637	6121
85	13417	1048	42

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	2803.42	N.A.	19.50
0-30	5851.1	N.A.	40.80
0-40	9080.75	N.A.	63.30
0-60	12791.12	N.A.	89.20
0-80	14161.45	N.A.	98.70
0-90	14304.3	N.A.	99.70
10-90	13595.83	N.A.	94.80
20-40	6277.33	N.A.	43.80
20-50	8629.58	N.A.	60.20
40-70	4506.31	N.A.	31.40
60-80	1370.33	N.A.	9.60
70-80	574.39	N.A.	4.00
80-90	142.85	N.A.	1.00
90-110	4.99	N.A.	0.00
90-120	9.38	N.A.	0.10
90-130	15.50	N.A.	0.10
90-150	29.87	N.A.	0.20
90-180	41.91	N.A.	0.30
110-180	36.93	N.A.	0.30
0-180	14346.22	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	708.48
10-20	2094.94
20-30	3047.68
30-40	3229.65
40-50	2352.25
50-60	1358.12
60-70	795.94
70-80	574.39
80-90	142.85
90-100	2.60
100-110	2.38
110-120	4.40
120-130	6.12
130-140	7.13
140-150	7.24
150-160	6.47
160-170	4.13
170-180	1.44

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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	111	107	103	100	108	104	101	98	100	98	95	96	94	92	93	91	90	88
2	102	96	90	85	100	94	89	84	90	86	82	87	83	80	84	81	79	77
3	95	86	79	74	93	85	78	73	82	76	72	79	74	71	77	73	69	67
4	88	78	70	65	86	77	70	64	74	68	63	72	67	62	70	65	62	60
5	82	71	63	57	80	70	63	57	68	61	56	66	60	56	64	59	55	53
6	77	65	57	51	75	64	56	51	62	56	51	61	55	50	59	54	50	48
7	72	60	52	46	70	59	51	46	57	51	46	56	50	46	55	49	45	43
8	67	55	47	42	66	54	47	42	53	46	42	52	46	41	51	45	41	39
9	63	51	43	38	62	50	43	38	49	43	38	48	42	38	47	42	38	36
10	59	47	40	35	58	47	40	35	46	39	35	45	39	35	44	39	35	33

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**UGR TABLE - CORRECTED**

Reflectances

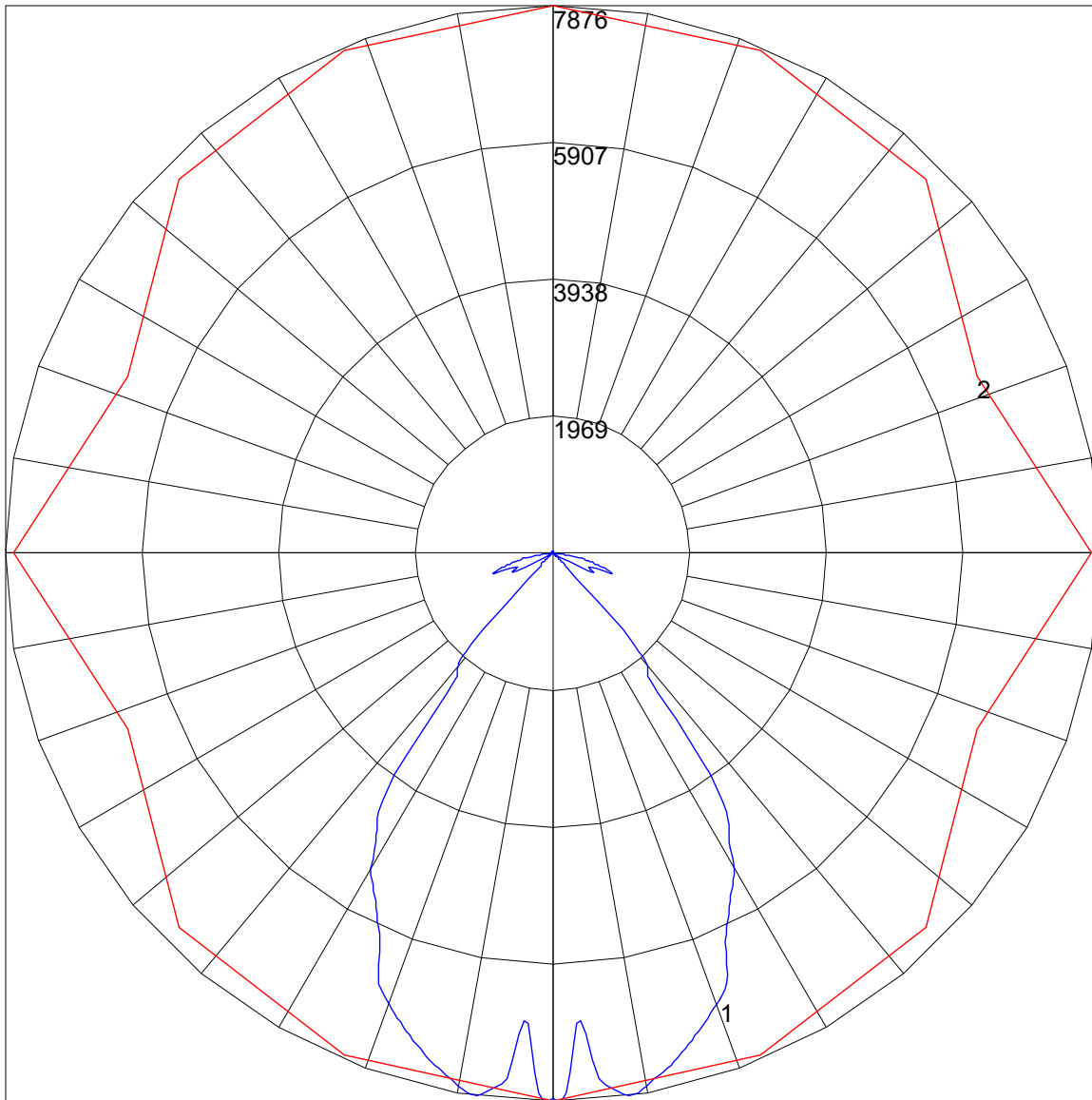
Ceiling Cavity	70	70	50	50	30	70	70	50	50	30
Walls	50	30	50	30	30	50	30	50	30	30
Floor Cavity	20	20	20	20	20	20	20	20	20	20

Room Size UGR Viewed Crosswise

Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	24.3	25.7	24.7	26.0	26.3	9.3	9.3	9.3	9.3	9.3
	3H	24.9	26.2	25.3	26.5	26.9	15.3	16.6	15.7	16.9	17.3
	4H	25.2	26.4	25.7	26.8	27.2	19.2	20.3	19.6	20.7	21.1
	6H	25.4	26.5	25.9	26.9	27.3	20.7	21.7	21.1	22.1	22.5
	8H	25.5	26.5	25.9	26.9	27.3	20.8	21.8	21.2	22.2	22.6
	12H	25.5	26.4	25.9	26.8	27.3	20.7	21.7	21.2	22.1	22.5
4H	2H	24.1	25.2	24.5	25.6	26.0	9.3	9.3	9.3	9.3	9.3
	3H	24.7	25.7	25.2	26.1	26.5	16.0	17.0	16.4	17.4	17.8
	4H	25.0	25.9	25.5	26.3	26.8	20.0	20.9	20.5	21.3	21.8
	6H	25.3	26.0	25.7	26.5	27.0	21.6	22.3	22.1	22.8	23.3
	8H	25.3	26.0	25.8	26.5	27.0	21.7	22.4	22.2	22.9	23.4
	12H	25.3	26.0	25.9	26.5	27.0	21.7	22.3	22.2	22.8	23.3
8H	4H	25.0	25.7	25.5	26.1	26.6	20.3	20.9	20.7	21.4	21.9
	6H	25.2	25.8	25.7	26.3	26.8	21.9	22.5	22.4	23.0	23.5
	8H	25.3	25.8	25.8	26.3	26.8	22.1	22.6	22.6	23.1	23.6
	12H	25.4	25.8	25.9	26.3	26.9	22.1	22.5	22.6	23.0	23.6
12H	4H	24.9	25.6	25.4	26.1	26.6	20.2	20.8	20.7	21.3	21.8
	6H	25.2	25.7	25.8	26.2	26.8	21.9	22.4	22.5	22.9	23.5
	8H	25.3	25.8	25.8	26.3	26.9	22.1	22.5	22.6	23.1	23.6

Maximum UGR = 27.3

POLAR GRAPH



Maximum Candela = 7876 Located At Horizontal Angle = 90, Vertical Angle = 8.5  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (8.5) (Through Max. Cd.)