



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : PBL A G2 8 HI UV 840.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LLIA001853-007A(s)

[TESTLAB] LightLab International Allentown, LLC

[ISSUE DATE] 9/6/2022

[MANUFAC] Lumen Focus, LLC

[LUMCAT] PBL A G2 8 HI UV 840

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

[MORE] formed and fabricated specular aluminum reflector, no enclosure.

[LAMP] 896 white LEDs, eight M12CC840D112N2U LED boards with 112 LEDs each

[BALLAST] Four ULT D21CC80UNVPW-C LED drivers set at 1470mA

[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	48249
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	167
Total Luminaire Watts	289
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.30
Spacing Criterion (90-270)	1.04
Spacing Criterion (Diagonal)	1.22
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	7.83 ft
Luminous Width (90-270)	0.52 ft
Luminous Height	0.03 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	74111	37714	10847
55	71813	9896	94
65	66570	272	38
75	55323	179	14
85	28879	34	0

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	9607.47	N.A.	19.90
0-30	20165.76	N.A.	41.80
0-40	31483.36	N.A.	65.30
0-60	44888.56	N.A.	93.00
0-80	48078.16	N.A.	99.60
0-90	48248.44	N.A.	100.00
10-90	45774.32	N.A.	94.90
20-40	21875.89	N.A.	45.30
20-50	30311.52	N.A.	62.80
40-70	15798.03	N.A.	32.70
60-80	3189.6	N.A.	6.60
70-80	796.78	N.A.	1.70
80-90	170.28	N.A.	0.40
90-110	0.32	N.A.	0.00
90-120	0.32	N.A.	0.00
90-130	0.32	N.A.	0.00
90-150	0.32	N.A.	0.00
90-180	0.32	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	48248.76	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	2474.12
10-20	7133.35
20-30	10558.29
30-40	11317.6
40-50	8435.63
50-60	4969.58
60-70	2392.82
70-80	796.78
80-90	170.28
90-100	0.32
100-110	0.00
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	111	108	105	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	71	70
4	89	79	72	67	87	78	71	66	76	70	65	74	69	65	72	67	64	62
5	83	72	65	59	81	71	64	59	69	63	58	67	62	58	66	61	57	55
6	78	66	58	53	76	65	58	53	64	57	52	62	56	52	60	55	51	50
7	72	61	53	48	71	60	53	48	58	52	47	57	51	47	56	51	47	45
8	68	56	48	43	66	55	48	43	54	48	43	53	47	43	52	46	42	41
9	64	52	44	39	62	51	44	39	50	44	39	49	43	39	48	43	39	37
10	60	48	41	36	59	48	41	36	47	40	36	46	40	36	45	40	36	34

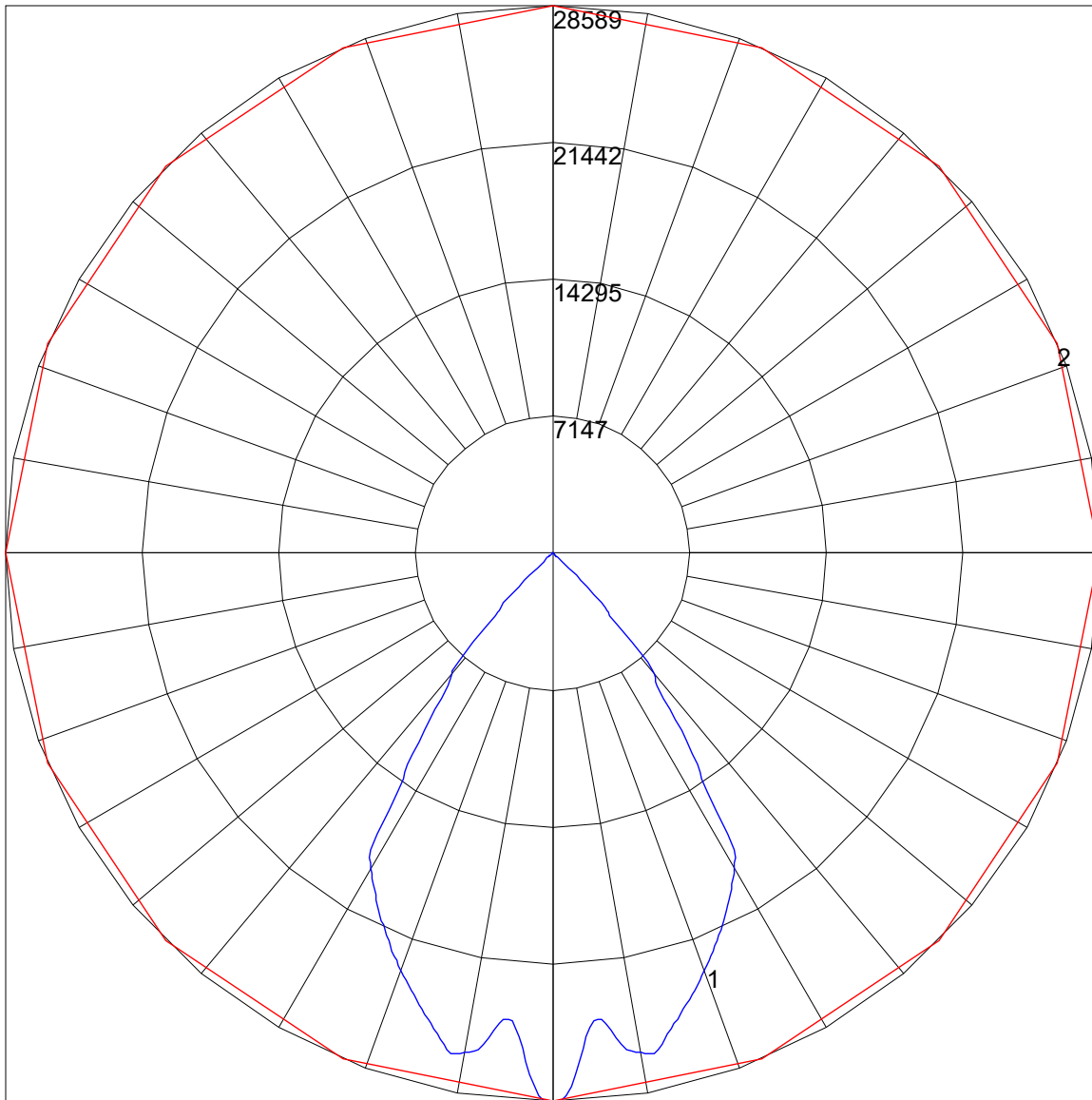
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**UGR TABLE - CORRECTED**

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	27.5	28.9	27.9	29.2	29.5	13.5	13.5	13.5	13.5	13.5
	3H	28.6	29.8	29.0	30.1	30.5	13.5	13.5	13.5	13.5	13.5
	4H	29.0	30.2	29.5	30.5	30.9	13.5	13.5	13.5	13.5	13.5
	6H	29.4	30.4	29.8	30.8	31.2	13.5	13.5	13.5	13.5	13.5
	8H	29.5	30.5	29.9	30.9	31.3	13.5	13.5	13.5	13.5	13.5
	12H	29.6	30.5	30.0	30.9	31.3	13.5	13.5	13.5	13.5	13.5
4H	2H	27.3	28.4	27.7	28.8	29.2	13.5	13.5	13.5	13.5	13.5
	3H	28.4	29.3	28.8	29.7	30.1	13.5	13.5	13.5	13.5	13.5
	4H	28.8	29.6	29.2	30.0	30.5	13.5	13.5	13.5	13.5	13.5
	6H	29.2	29.9	29.7	30.4	30.8	13.5	13.5	13.5	13.5	13.5
	8H	29.4	30.0	29.8	30.5	30.9	13.5	13.5	13.5	13.5	13.5
	12H	29.4	30.0	29.9	30.5	31.0	13.5	13.5	13.5	13.5	13.5
8H	4H	28.7	29.3	29.2	29.8	30.2	13.5	13.5	13.5	13.5	13.5
	6H	29.1	29.6	29.6	30.1	30.6	13.5	13.5	13.5	13.5	13.5
	8H	29.2	29.7	29.7	30.2	30.7	13.5	13.5	13.5	13.5	13.5
	12H	29.3	29.7	29.8	30.2	30.8	13.5	13.5	13.5	13.5	13.5
12H	4H	28.6	29.2	29.1	29.7	30.2	13.5	13.5	13.5	13.5	13.5
	6H	29.0	29.5	29.6	30.0	30.5	13.5	13.5	13.5	13.5	13.5
	8H	29.1	29.6	29.7	30.1	30.6	13.5	13.5	13.5	13.5	13.5

Maximum UGR = 31.3

POLAR GRAPH



Maximum Candela = 28589.264 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.)