



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : PBL A G2 8 MD UV 835.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 MD UV 835

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

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

[LAMP] 896 white LEDs, eight M12CC835D112N2U LED boards with 112 LEDs each

[BALLAST] Four ULT D15CC55UNVPW-C LED drivers set at 1210mA

[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	38071
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	160
Total Luminaire Watts	238.4
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	58478	29758	8559
55	56665	7808	74
65	52528	214	30
75	43654	141	11
85	22787	27	0

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	7580.93	N.A.	19.90
0-30	15912.12	N.A.	41.80
0-40	24842.46	N.A.	65.30
0-60	35420.06	N.A.	93.00
0-80	37936.87	N.A.	99.60
0-90	38071.23	N.A.	100.00
10-90	36118.98	N.A.	94.90
20-40	17261.53	N.A.	45.30
20-50	23917.8	N.A.	62.80
40-70	12465.7	N.A.	32.70
60-80	2516.81	N.A.	6.60
70-80	628.71	N.A.	1.70
80-90	134.36	N.A.	0.40
90-110	0.25	N.A.	0.00
90-120	0.25	N.A.	0.00
90-130	0.25	N.A.	0.00
90-150	0.25	N.A.	0.00
90-180	0.25	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	38071.48	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	1952.25
10-20	5628.68
20-30	8331.2
30-40	8930.34
40-50	6656.27
50-60	3921.33
60-70	1888.1
70-80	628.71
80-90	134.36
90-100	0.25
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	64	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**

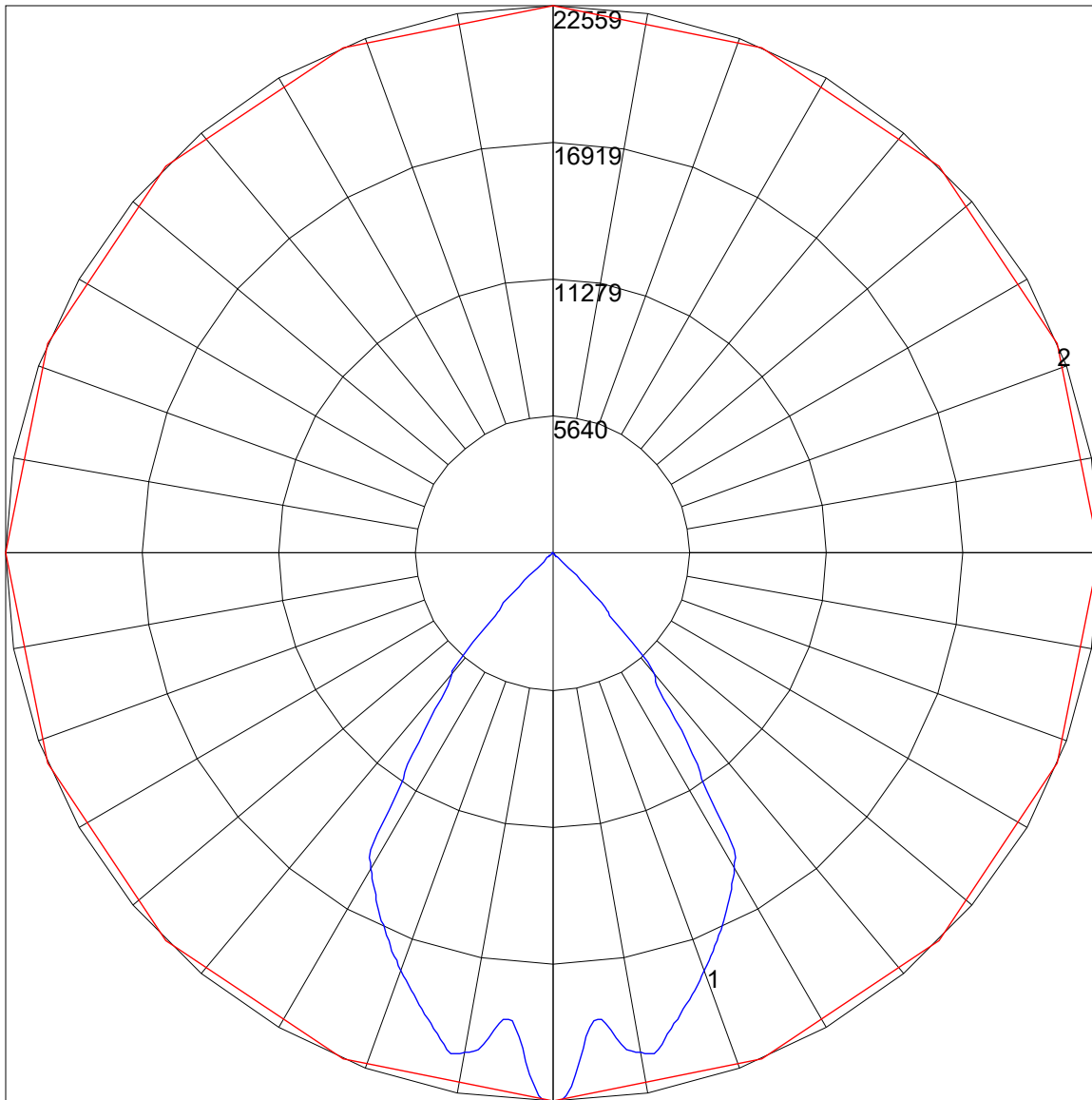
Reflectances

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	26.7	28.1	27.1	28.4	28.7	12.7	12.7	12.7	12.7	12.7
	3H	27.8	29.0	28.2	29.3	29.7	12.7	12.7	12.7	12.7	12.7
	4H	28.2	29.4	28.7	29.7	30.1	12.7	12.7	12.7	12.7	12.7
	6H	28.6	29.6	29.0	30.0	30.4	12.7	12.7	12.7	12.7	12.7
	8H	28.7	29.7	29.1	30.1	30.5	12.7	12.7	12.7	12.7	12.7
	12H	28.8	29.7	29.2	30.1	30.5	12.7	12.7	12.7	12.7	12.7
4H	2H	26.5	27.6	26.9	28.0	28.4	12.7	12.7	12.7	12.7	12.7
	3H	27.6	28.5	28.0	28.9	29.3	12.7	12.7	12.7	12.7	12.7
	4H	28.0	28.8	28.4	29.2	29.7	12.7	12.7	12.7	12.7	12.7
	6H	28.4	29.1	28.9	29.6	30.0	12.7	12.7	12.7	12.7	12.7
	8H	28.6	29.2	29.0	29.7	30.1	12.7	12.7	12.7	12.7	12.7
	12H	28.6	29.2	29.1	29.7	30.2	12.7	12.7	12.7	12.7	12.7
8H	4H	27.9	28.5	28.4	29.0	29.4	12.7	12.7	12.7	12.7	12.7
	6H	28.3	28.8	28.8	29.3	29.8	12.7	12.7	12.7	12.7	12.7
	8H	28.4	28.9	28.9	29.4	29.9	12.7	12.7	12.7	12.7	12.7
	12H	28.5	28.9	29.0	29.4	30.0	12.7	12.7	12.7	12.7	12.7
12H	4H	27.8	28.4	28.3	28.9	29.4	12.7	12.7	12.7	12.7	12.7
	6H	28.2	28.7	28.8	29.2	29.7	12.7	12.7	12.7	12.7	12.7
	8H	28.3	28.8	28.9	29.3	29.8	12.7	12.7	12.7	12.7	12.7

Maximum UGR = 30.5

POLAR GRAPH



Maximum Candela = 22558.829 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.)