



IES INDOOR REPORT

PHOTOMETRIC FILENAME : PBL A G2 4N VH UV 835.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LLIA001839-001(s)

[TESTLAB] LightLab International Allentown, LLC

[ISSUE DATE] 8/26/2022

[MANUFAC] Lumen Focus, LLC

[LUMCAT] PBL A G2 4N VH UV 835

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

[MORE] formed specular aluminum reflector, no enclosure.

[LAMP] 224 white LEDs, two ULT Everline M12CC835D112N2U 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	13614
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	157
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	55274	25001	1547
55	51960	1885	88
65	45903	349	4762
75	34639	3452	5809
85	12733	994	40

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	2660.41	N.A.	19.50
0-30	5552.63	N.A.	40.80
0-40	8617.54	N.A.	63.30
0-60	12138.64	N.A.	89.20
0-80	13439.06	N.A.	98.70
0-90	13574.63	N.A.	99.70
10-90	12902.29	N.A.	94.80
20-40	5957.12	N.A.	43.80
20-50	8189.38	N.A.	60.20
40-70	4276.44	N.A.	31.40
60-80	1300.43	N.A.	9.60
70-80	545.09	N.A.	4.00
80-90	135.57	N.A.	1.00
90-110	4.73	N.A.	0.00
90-120	8.91	N.A.	0.10
90-130	14.71	N.A.	0.10
90-150	28.35	N.A.	0.20
90-180	39.78	N.A.	0.30
110-180	35.04	N.A.	0.30
0-180	13614.41	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	672.34
10-20	1988.08
20-30	2892.22
30-40	3064.9
40-50	2232.26
50-60	1288.85
60-70	755.34
70-80	545.09
80-90	135.57
90-100	2.47
100-110	2.26
110-120	4.17
120-130	5.81
130-140	6.76
140-150	6.87
150-160	6.14
160-170	3.92
170-180	1.37

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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

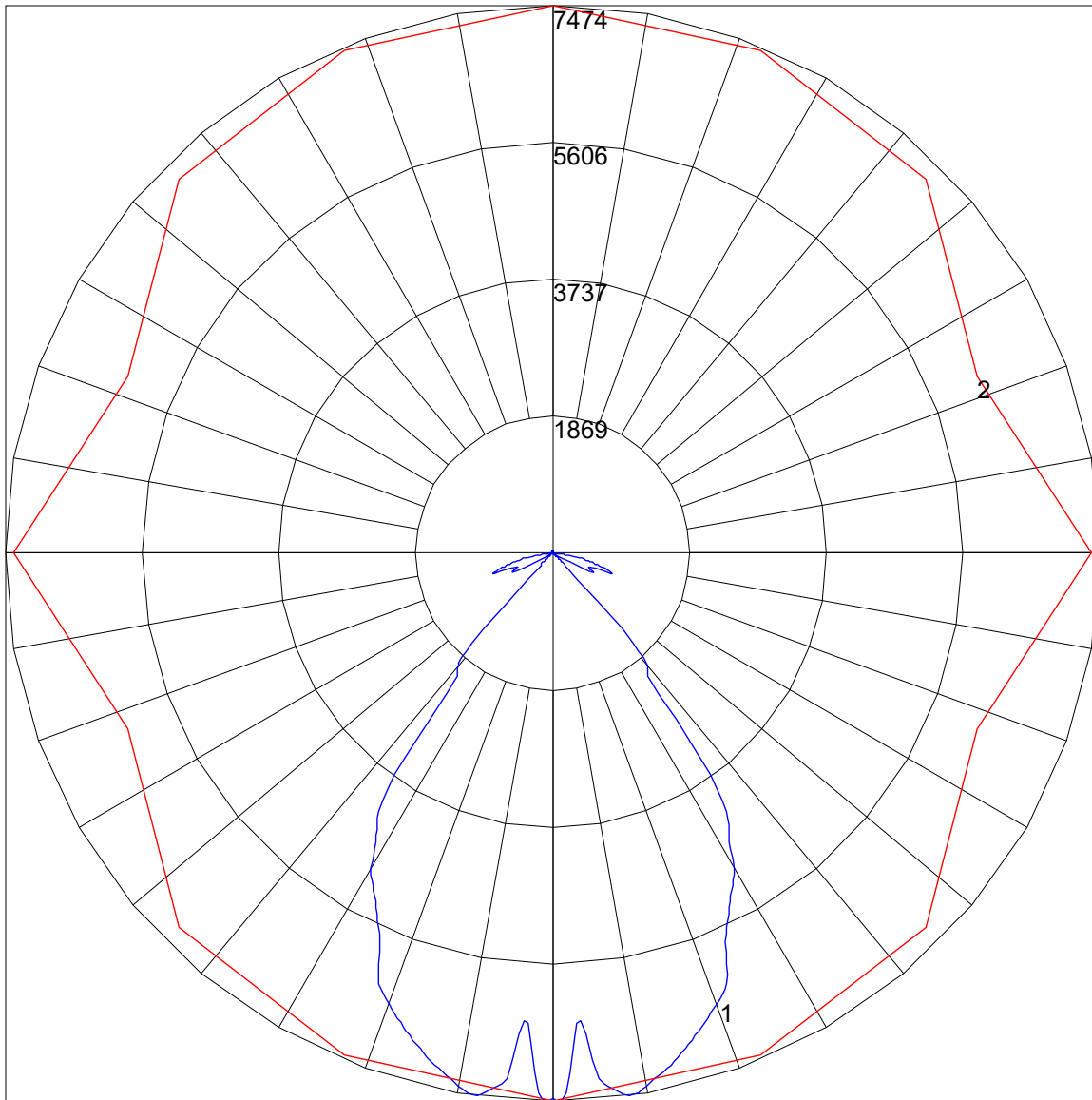
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UGR TABLE - CORRECTED

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					UGR Viewed Endwise				
X=2H	Y=2H	24.1	25.5	24.5	25.8	26.1	9.1	9.1	9.1	9.1	9.1
	3H	24.7	26.0	25.1	26.3	26.7	15.1	16.4	15.5	16.7	17.1
	4H	25.0	26.2	25.5	26.6	27.0	19.0	20.1	19.4	20.5	20.9
	6H	25.2	26.3	25.7	26.7	27.1	20.5	21.5	20.9	21.9	22.3
	8H	25.3	26.3	25.7	26.7	27.1	20.6	21.6	21.0	22.0	22.4
	12H	25.3	26.2	25.7	26.6	27.1	20.5	21.5	21.0	21.9	22.3
4H	2H	23.9	25.0	24.3	25.4	25.8	9.1	9.1	9.1	9.1	9.1
	3H	24.5	25.5	25.0	25.9	26.3	15.8	16.8	16.2	17.2	17.6
	4H	24.8	25.7	25.3	26.1	26.6	19.8	20.7	20.3	21.1	21.6
	6H	25.1	25.8	25.5	26.3	26.8	21.4	22.1	21.9	22.6	23.1
	8H	25.1	25.8	25.6	26.3	26.8	21.5	22.2	22.0	22.7	23.2
	12H	25.1	25.8	25.7	26.3	26.8	21.5	22.1	22.0	22.6	23.1
8H	4H	24.8	25.5	25.3	25.9	26.4	20.1	20.7	20.5	21.2	21.7
	6H	25.0	25.6	25.5	26.1	26.6	21.7	22.3	22.2	22.8	23.3
	8H	25.1	25.6	25.6	26.1	26.6	21.9	22.4	22.4	22.9	23.4
	12H	25.2	25.6	25.7	26.1	26.7	21.9	22.3	22.4	22.8	23.4
12H	4H	24.7	25.4	25.2	25.9	26.4	20.0	20.6	20.5	21.1	21.6
	6H	25.0	25.5	25.6	26.0	26.6	21.7	22.2	22.3	22.7	23.3
	8H	25.1	25.5	25.6	26.1	26.7	21.9	22.3	22.4	22.9	23.4

Maximum UGR = 27.1

POLAR GRAPH



Maximum Candela = 7474.24 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.)