



IES INDOOR REPORT

PHOTOMETRIC FILENAME : BP-14-LS-8CS-DIM-UNV_20W_5000K_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] GEN FROM BALLABS TEST NO. 20531
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
 [ISSUEDATE] 2025-09-09
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO
 [LUMINAIRE] 1x4 ULTRA THIN SEAMLESS FLAT PANEL LIGHT
 [MORE] .39" ALUMINUM FRAME w/PS 1mm DIFFUSE LENS PMMA 2mm LIGHT
 [MORE] GUIDE PANEL, LED DRIVER
 [LUMCAT] BP-14-LS-8CS-DIM-UNV_20W_5000K_
 [LAMPCAT] LED

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2450
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	125
Total Luminaire Watts	19.6
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.24
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.38
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.81 ft
Luminous Width (90-270)	0.83 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2749	2776	2787
55	2597	2600	2617
65	2468	2468	2454
75	2086	2041	2056
85	1745	1655	1588

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CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0	871.035	871.035	871.035	871.035	871.035
5	871.607	871.607	871.607	871.607	871.607
10	860.733	861.306	861.306	861.878	861.878
15	838.414	838.414	839.559	840.703	841.848
20	794.919	794.919	797.781	797.781	799.498
25	773.172	774.889	777.178	779.467	779.467
30	721.666	721.666	723.382	727.388	727.961
35	669.587	669.587	673.020	676.454	677.599
40	622.086	623.803	626.092	627.237	630.098
45	570.579	571.724	576.302	577.447	578.591
50	509.344	509.916	512.777	516.211	515.639
55	437.234	437.807	437.807	438.951	440.668
60	365.125	365.697	365.125	363.980	366.270
65	306.178	306.178	306.178	305.034	304.462
70	232.352	232.352	231.780	231.780	230.063
75	158.526	156.809	155.092	155.092	156.237
80	100.152	99.580	97.290	95.573	97.290
85	44.639	43.495	42.350	41.205	40.633
90	2.861	3.434	3.434	2.861	2.861

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	318.62	N.A.	13.00
0-30	673.68	N.A.	27.50
0-40	1096.19	N.A.	44.70
0-60	1930.91	N.A.	78.80
0-80	2399.39	N.A.	97.90
0-90	2449.96	N.A.	100.00
10-90	2367.13	N.A.	96.60
20-40	777.57	N.A.	31.70
20-50	1219.73	N.A.	49.80
40-70	1133.88	N.A.	46.30
60-80	468.48	N.A.	19.10
70-80	169.32	N.A.	6.90
80-90	50.58	N.A.	2.10
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	2449.96	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	82.83
10-20	235.79
20-30	355.06
30-40	422.51
40-50	442.16
50-60	392.56
60-70	299.16
70-80	169.32
80-90	50.58
90-100	0.00
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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Effective Floor Cavity Reflectance 0.20

RC RW	80				70				50			30			10			0
	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	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70
3	90	79	71	65	88	78	70	64	75	68	63	72	66	62	69	65	61	59
4	82	70	61	55	80	69	61	54	66	59	54	64	58	53	62	57	52	50
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45	43
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	50	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	44	37	32	42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	29	27
10	53	40	32	26	52	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

X=2H	Y=2H	15.4	17.0	15.7	17.3	17.6	15.4	17.0	15.7	17.3	17.6
	3H	17.2	18.7	17.6	19.0	19.4	17.2	18.7	17.6	19.0	19.4
	4H	17.9	19.3	18.3	19.6	20.0	17.9	19.3	18.2	19.6	20.0
	6H	18.4	19.7	18.8	20.1	20.5	18.4	19.6	18.8	20.0	20.4
	8H	18.6	19.8	19.0	20.2	20.6	18.5	19.8	18.9	20.1	20.5
	12H	18.7	19.9	19.1	20.3	20.7	18.6	19.8	19.1	20.2	20.6

UGR Viewed Endwise

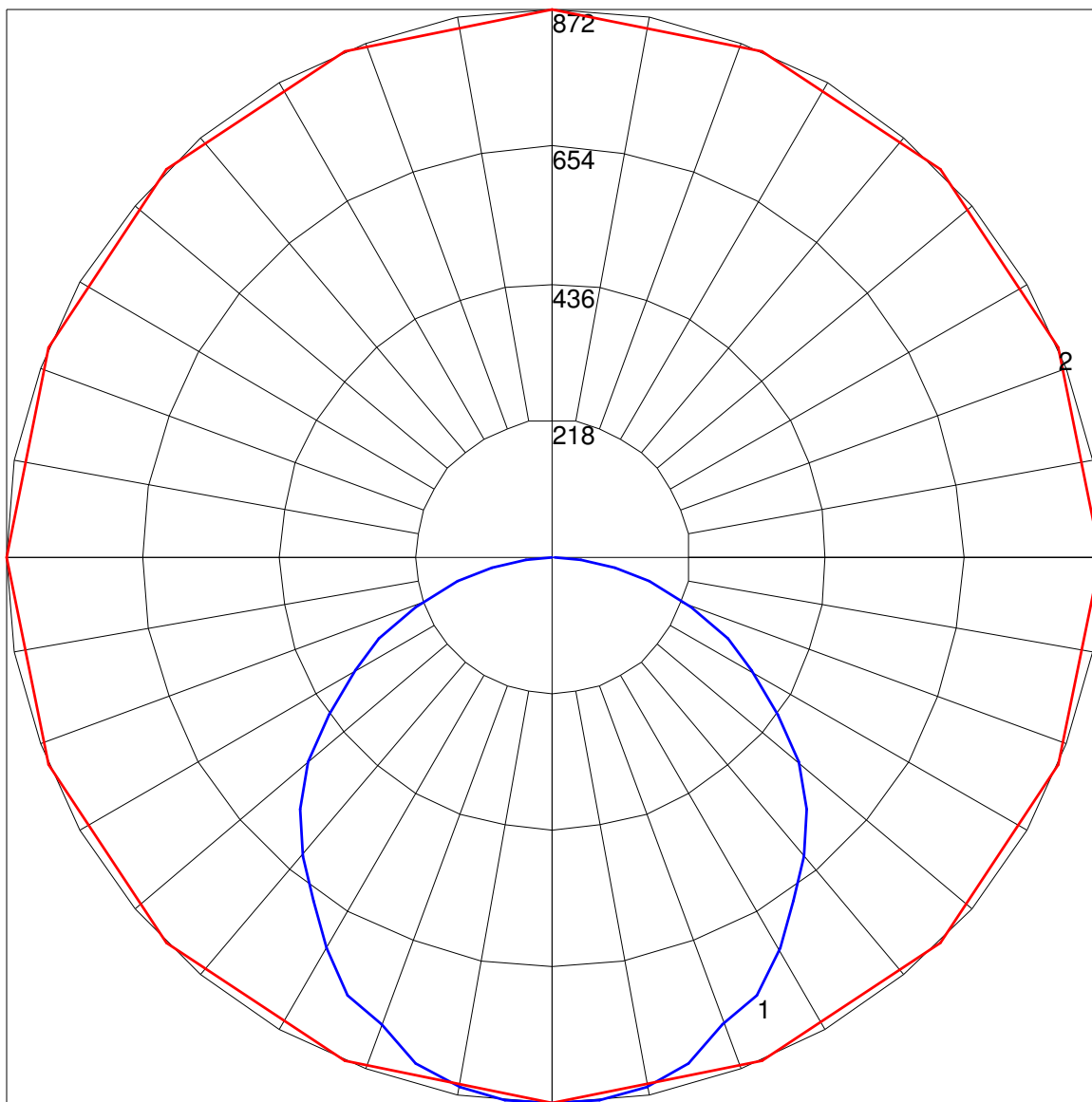
4H	2H	16.0	17.4	16.4	17.8	18.2	16.0	17.4	16.4	17.8	18.2
	3H	18.1	19.3	18.5	19.7	20.1	18.1	19.3	18.5	19.7	20.1
	4H	18.9	19.9	19.3	20.4	20.8	18.9	19.9	19.3	20.3	20.8
	6H	19.5	20.4	20.0	20.9	21.3	19.5	20.4	19.9	20.8	21.3
	8H	19.7	20.6	20.2	21.1	21.5	19.7	20.5	20.1	21.0	21.5
	12H	19.9	20.7	20.4	21.2	21.6	19.8	20.6	20.3	21.1	21.6

8H	4H	19.2	20.0	19.6	20.5	21.0	19.1	20.0	19.6	20.5	20.9
	6H	19.9	20.7	20.4	21.2	21.6	19.9	20.6	20.4	21.1	21.6
	8H	20.2	20.9	20.8	21.4	21.9	20.2	20.8	20.7	21.3	21.8
	12H	20.5	21.1	21.0	21.6	22.1	20.4	21.0	20.9	21.5	22.0

12H	4H	19.2	20.0	19.7	20.5	20.9	19.2	20.0	19.7	20.4	20.9
	6H	20.0	20.7	20.5	21.1	21.7	20.0	20.6	20.5	21.1	21.6
	8H	20.4	21.0	20.9	21.4	22.0	20.3	20.9	20.8	21.4	21.9

Maximum UGR = 22.1

POLAR GRAPH



Maximum Candela = 871.607 Located At Horizontal Angle = 0, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)