



IES INDOOR REPORT

PHOTOMETRIC FILENAME : BP-14-LS-8CS-DIM-UNV_40W_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_40W_5000K_

[LAMPCAT] LED

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4637
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	117
Total Luminaire Watts	39.8
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	5202	5254	5275
55	4914	4921	4953
65	4671	4671	4644
75	3949	3863	3892
85	3302	3133	3006

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	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0	1648.567	1648.567	1648.567	1648.567	1648.567
5	1649.650	1649.650	1649.650	1649.650	1649.650
10	1629.070	1630.153	1630.153	1631.236	1631.236
15	1586.826	1586.826	1588.993	1591.159	1593.325
20	1504.506	1504.506	1509.922	1509.922	1513.172
25	1463.346	1466.596	1470.929	1475.261	1475.261
30	1365.862	1365.862	1369.112	1376.694	1377.777
35	1267.295	1267.295	1273.794	1280.293	1282.459
40	1177.393	1180.642	1184.975	1187.141	1192.557
45	1079.909	1082.075	1090.740	1092.906	1095.073
50	964.011	965.094	970.510	977.009	975.925
55	827.533	828.616	828.616	830.782	834.032
60	691.055	692.138	691.055	688.888	693.221
65	579.490	579.490	579.490	577.323	576.240
70	439.762	439.762	438.679	438.679	435.430
75	300.035	296.785	293.536	293.536	295.702
80	189.553	188.469	184.137	180.887	184.137
85	84.486	82.320	80.154	77.987	76.904
90	5.416	6.499	6.499	5.416	5.416

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	603.04	N.A.	13.00
0-30	1275.04	N.A.	27.50
0-40	2074.71	N.A.	44.70
0-60	3654.54	N.A.	78.80
0-80	4541.21	N.A.	97.90
0-90	4636.93	N.A.	100.00
10-90	4480.16	N.A.	96.60
20-40	1471.67	N.A.	31.70
20-50	2308.53	N.A.	49.80
40-70	2146.04	N.A.	46.30
60-80	886.67	N.A.	19.10
70-80	320.46	N.A.	6.90
80-90	95.72	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	4636.93	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	156.77
10-20	446.27
20-30	672.00
30-40	799.67
40-50	836.86
50-60	742.97
60-70	566.21
70-80	320.46
80-90	95.72
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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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	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	17.6	19.2	17.9	19.5	19.8	17.6	19.2	17.9	19.5	19.8
	3H	19.4	20.9	19.8	21.2	21.6	19.4	20.9	19.8	21.2	21.6
	4H	20.1	21.5	20.5	21.8	22.2	20.0	21.5	20.4	21.8	22.2
	6H	20.6	21.9	21.0	22.3	22.7	20.6	21.8	21.0	22.2	22.6
	8H	20.8	22.0	21.2	22.4	22.8	20.7	22.0	21.1	22.3	22.7
	12H	20.9	22.1	21.3	22.5	22.9	20.8	22.0	21.3	22.4	22.8

UGR Viewed Endwise

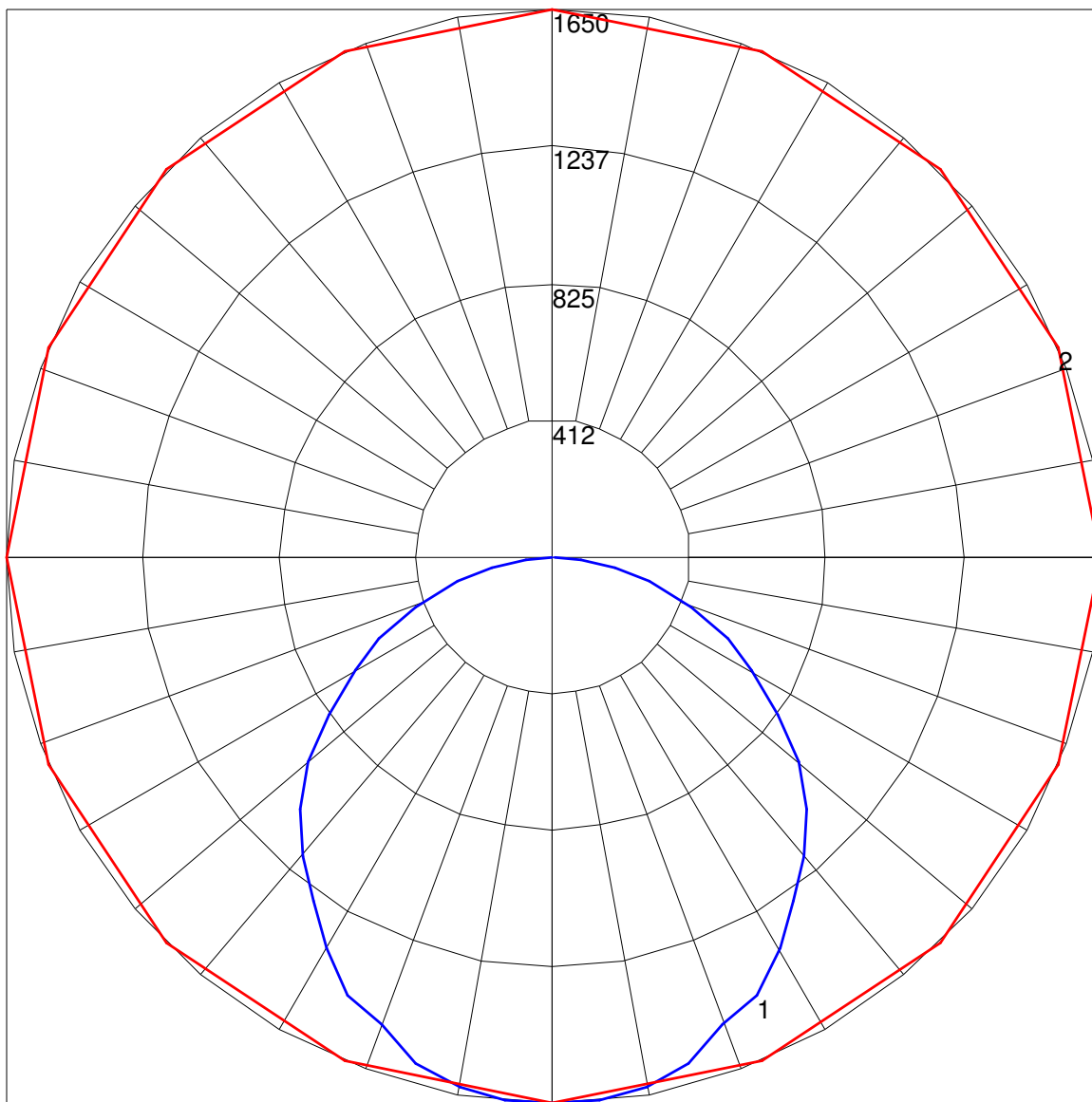
4H	2H	18.2	19.6	18.6	20.0	20.4	18.2	19.6	18.6	20.0	20.4
	3H	20.3	21.5	20.7	21.9	22.3	20.3	21.5	20.7	21.9	22.3
	4H	21.1	22.1	21.5	22.6	23.0	21.1	22.1	21.5	22.5	23.0
	6H	21.7	22.6	22.2	23.1	23.5	21.7	22.6	22.1	23.0	23.5
	8H	21.9	22.8	22.4	23.3	23.7	21.9	22.7	22.3	23.2	23.7
	12H	22.1	22.9	22.6	23.4	23.8	22.0	22.8	22.5	23.3	23.8

8H	4H	21.4	22.2	21.8	22.7	23.2	21.3	22.2	21.8	22.7	23.1
	6H	22.1	22.9	22.6	23.4	23.8	22.1	22.8	22.6	23.3	23.8
	8H	22.4	23.1	23.0	23.6	24.1	22.4	23.0	22.9	23.5	24.0
	12H	22.7	23.3	23.2	23.8	24.3	22.6	23.2	23.1	23.7	24.2

12H	4H	21.4	22.2	21.9	22.7	23.1	21.4	22.2	21.9	22.6	23.1
	6H	22.2	22.9	22.7	23.3	23.9	22.2	22.8	22.7	23.3	23.8
	8H	22.6	23.2	23.1	23.6	24.2	22.5	23.1	23.0	23.6	24.1

Maximum UGR = 24.3

POLAR GRAPH



Maximum Candela = 1649.65 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.)