



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75S-8-L100-840-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN FROM BALLABS TEST NO. 19745.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 10-27-2022

[MANUFAC] WILLIAMS INDOOR

[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO.64836

[LUMINAIRE] 8'LED STRIP LUMINAIRE

[MORE] WITH FROSTED ACRYLIC LENS

[LUMCAT] 75S-8-L100-840-DIM-UNV

[LAMPCAT] HLM 80 CRI 4000K CCT

[_SEARCH_SOURCETYPE] LED

[_SEARCH_APPLICATION] Indoor, Commercial, Industrial, Manufacturing, Utility, Warehouse, Linear

[_SEARCH_MOUNTING] Surface, Suspended

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	9855
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	150
Total Luminaire Watts	65.9
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.18
Spacing Criterion (Diagonal)	1.30
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	7.44 ft
Luminous Width (90-270)	0.25 ft
Luminous Height	0.08 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	14923	12440	11827
55	12710	10570	10746
65	10056	9197	9936
75	7037	7729	9041
85	3365	6907	8268

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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	3325.155	3325.155	3325.155	3325.155	3325.155
5	3353.755	3311.607	3310.102	3302.575	3263.438
10	3296.554	3258.922	3261.933	3252.901	3216.775
15	3204.733	3168.606	3177.638	3168.606	3138.500
20	3051.194	3024.099	3051.194	3037.647	3006.036
25	2861.530	2850.993	2875.077	2873.572	2826.908
30	2652.296	2656.812	2683.907	2683.907	2626.707
35	2396.399	2432.526	2446.073	2450.589	2391.884
40	2117.923	2172.113	2160.071	2184.155	2154.050
45	1845.468	1893.637	1890.627	1934.280	1926.753
50	1566.992	1610.645	1645.267	1719.025	1734.078
55	1280.990	1335.180	1411.949	1521.834	1571.508
60	1011.545	1077.778	1208.737	1344.211	1408.938
65	752.638	858.007	1022.082	1177.126	1243.358
70	516.310	654.795	830.912	999.503	1077.778
75	328.150	460.614	659.311	827.902	906.176
80	179.128	307.076	517.815	671.353	743.606
85	57.200	188.159	392.877	529.857	597.595
90	0.000	121.927	299.550	427.498	474.162
95	0.000	111.390	279.981	391.372	418.467
100	0.000	105.369	260.413	356.750	380.835
105	0.000	96.338	243.855	329.655	353.740
110	0.000	90.317	227.297	308.582	332.666
115	0.000	82.790	207.728	289.013	311.592
120	0.000	70.748	186.654	261.918	289.013
125	0.000	58.706	168.591	239.339	263.423
130	0.000	48.169	146.012	213.749	230.307
135	0.000	43.653	117.412	185.149	201.707
140	0.000	36.127	91.822	155.043	171.601
145	0.000	28.600	70.748	120.422	136.980
150	0.000	21.074	54.190	91.822	105.369
155	0.000	16.558	43.653	66.232	76.769
160	0.000	0.000	31.611	48.169	54.190
165	0.000	0.000	21.074	34.621	37.632
170	0.000	0.000	0.000	21.074	22.579
175	0.000	0.000	0.000	0.000	0.000
180	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1207.1	N.A.	12.20
0-30	2524.97	N.A.	25.60
0-40	4041.98	N.A.	41.00
0-60	6791.94	N.A.	68.90
0-80	8481.71	N.A.	86.10
0-90	8885.19	N.A.	90.20
10-90	8571.01	N.A.	87.00
20-40	2834.87	N.A.	28.80
20-50	4306.25	N.A.	43.70
40-70	3755.11	N.A.	38.10
60-80	1689.77	N.A.	17.10
70-80	684.62	N.A.	6.90
80-90	403.48	N.A.	4.10
90-110	496.48	N.A.	5.00
90-120	678.23	N.A.	6.90
90-130	812.12	N.A.	8.20
90-150	945.01	N.A.	9.60
90-180	969.91	N.A.	9.80
110-180	473.43	N.A.	4.80
0-180	9855.1	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	314.18
10-20	892.92
20-30	1317.86
30-40	1517.01
40-50	1471.38
50-60	1278.58
60-70	1005.14
70-80	684.62
80-90	403.48
90-100	271.65
100-110	224.83
110-120	181.75
120-130	133.90
130-140	86.77
140-150	46.11
150-160	19.29
160-170	5.32
170-180	0.29

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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	117	117	117	117	113	113	113	113	106	106	106	99	99	99	93	93	93	90
1	106	101	96	92	102	97	93	89	91	88	85	86	83	81	81	78	76	74
2	96	88	81	75	92	85	78	73	80	74	70	75	71	67	71	67	64	61
3	88	77	69	62	84	75	67	61	70	64	59	66	61	56	62	58	54	52
4	80	68	60	53	77	66	58	52	63	56	50	59	53	48	56	51	47	44
5	74	61	52	46	71	59	51	45	56	49	44	53	47	42	50	45	41	39
6	68	55	46	40	66	54	45	39	51	44	38	48	42	37	46	40	36	34
7	63	50	41	35	61	49	41	35	46	39	34	44	38	33	42	36	32	30
8	59	46	37	32	57	45	37	31	43	35	30	41	34	30	39	33	29	27
9	55	42	34	28	53	41	33	28	39	32	27	37	31	27	36	30	26	24
10	52	39	31	26	50	38	31	26	36	30	25	35	29	24	33	28	24	22

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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	18.2	19.6	18.7	20.1	20.6	20.3	21.8	20.9	22.3	22.8
	3H	19.4	20.6	19.9	21.2	21.8	22.8	24.0	23.3	24.6	25.2
	4H	19.7	20.9	20.2	21.4	22.0	23.9	25.1	24.4	25.6	26.2
	6H	19.9	21.0	20.4	21.5	22.2	25.1	26.2	25.6	26.7	27.4
	8H	19.9	21.0	20.5	21.5	22.2	25.6	26.7	26.2	27.3	27.9
	12H	19.9	20.9	20.5	21.5	22.1	26.3	27.3	26.9	27.9	28.6

UGR Viewed Endwise

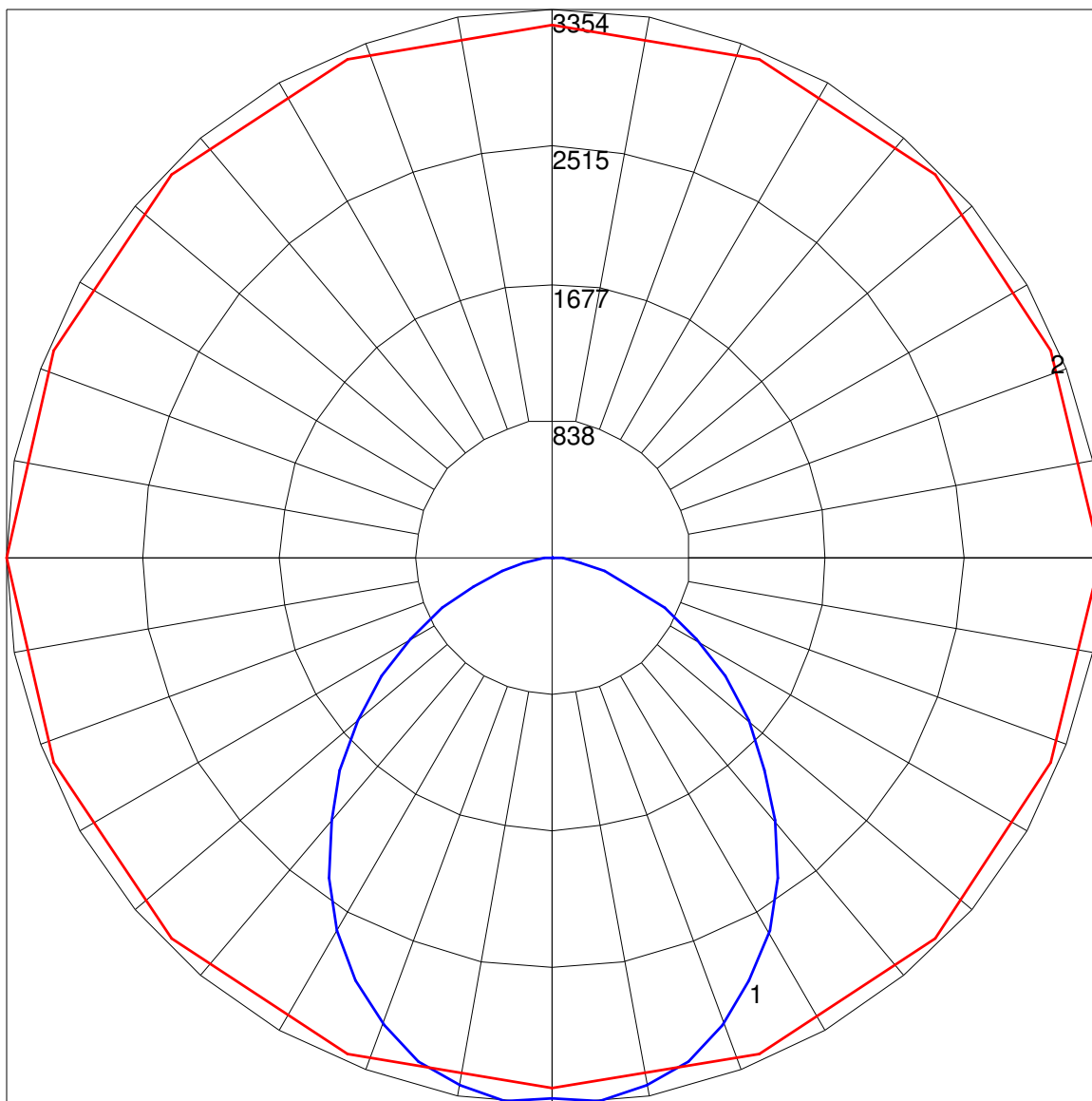
4H	2H	19.0	20.2	19.5	20.7	21.4	20.7	21.9	21.3	22.5	23.1
	3H	20.4	21.5	21.0	22.0	22.7	23.3	24.4	23.9	24.9	25.6
	4H	20.9	21.8	21.5	22.4	23.1	24.6	25.6	25.2	26.2	26.8
	6H	21.2	22.0	21.8	22.6	23.3	26.0	26.8	26.6	27.4	28.1
	8H	21.2	22.0	21.8	22.6	23.3	26.7	27.5	27.3	28.1	28.8
	12H	21.2	21.9	21.9	22.6	23.3	27.4	28.2	28.1	28.8	29.5

8H	4H	21.5	22.3	22.2	22.9	23.6	24.8	25.6	25.4	26.2	26.9
	6H	22.0	22.7	22.6	23.3	24.0	26.3	27.0	27.0	27.6	28.3
	8H	22.1	22.7	22.8	23.4	24.1	27.1	27.7	27.8	28.4	29.1
	12H	22.2	22.7	22.8	23.4	24.1	28.1	28.6	28.7	29.2	30.0

12H	4H	21.7	22.4	22.4	23.1	23.8	24.8	25.5	25.4	26.1	26.8
	6H	22.3	22.9	23.0	23.5	24.3	26.3	26.9	27.0	27.5	28.3
	8H	22.5	23.0	23.1	23.7	24.4	27.2	27.7	27.9	28.4	29.1

Maximum UGR = 30.0

POLAR GRAPH



Maximum Candela = 3353.755 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.)