



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75S-4-L50-840-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] 11/08/2022

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 44.625 INCH SURFACE MOUNT STRIP LUMINAIRE

[MORE] WHITE REFLECTOR w/FROSTED ACRYLIC SQUARE LENS

[LUMCAT] 75S-4-L50-840-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	5013
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	152
Total Luminaire Watts	33
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)	3.72 ft
Luminous Width (90-270)	0.21 ft
Luminous Height	0.08 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	18053	14567	13773
55	15305	12212	12342
65	12018	10435	11211
75	8276	8530	9946
85	3698	7236	8719

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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	1691.418	1691.418	1691.418	1691.418	1691.418
5	1705.967	1684.527	1683.762	1679.933	1660.025
10	1676.870	1657.728	1659.259	1654.665	1636.289
15	1630.163	1611.786	1616.380	1611.786	1596.472
20	1552.062	1538.280	1552.062	1545.171	1529.091
25	1455.585	1450.225	1462.476	1461.710	1437.974
30	1349.153	1351.450	1365.233	1365.233	1336.136
35	1218.985	1237.362	1244.253	1246.550	1216.688
40	1077.332	1104.897	1098.771	1111.022	1095.708
45	938.741	963.243	961.712	983.917	980.089
50	797.088	819.293	836.904	874.423	882.080
55	651.606	679.171	718.221	774.117	799.385
60	514.547	548.237	614.852	683.765	716.690
65	382.847	436.446	519.906	598.773	632.463
70	262.633	333.077	422.663	508.421	548.237
75	166.921	234.302	335.374	421.132	460.948
80	91.118	156.202	263.399	341.500	378.253
85	29.096	95.712	199.846	269.524	303.981
90	0.000	62.021	152.373	217.457	241.194
95	0.000	56.661	142.419	199.080	212.863
100	0.000	53.599	132.465	181.470	193.721
105	0.000	49.004	124.042	167.687	179.938
110	0.000	45.942	115.620	156.967	169.218
115	0.000	42.113	105.666	147.013	158.499
120	0.000	35.988	94.946	133.231	147.013
125	0.000	29.862	85.758	121.745	133.996
130	0.000	24.502	74.272	108.729	117.151
135	0.000	22.205	59.724	94.180	102.603
140	0.000	18.377	46.707	78.867	87.289
145	0.000	14.548	35.988	61.256	69.678
150	0.000	10.720	27.565	46.707	53.599
155	0.000	8.423	22.205	33.691	39.050
160	0.000	0.000	16.080	24.502	27.565
165	0.000	0.000	10.720	17.611	19.142
170	0.000	0.000	0.000	10.720	11.485
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	614.02	N.A.	12.20
0-30	1284.38	N.A.	25.60
0-40	2056.05	N.A.	41.00
0-60	3454.88	N.A.	68.90
0-80	4314.42	N.A.	86.10
0-90	4519.66	N.A.	90.20
10-90	4359.85	N.A.	87.00
20-40	1442.03	N.A.	28.80
20-50	2190.48	N.A.	43.70
40-70	1910.12	N.A.	38.10
60-80	859.54	N.A.	17.10
70-80	348.25	N.A.	6.90
80-90	205.24	N.A.	4.10
90-110	252.54	N.A.	5.00
90-120	345.00	N.A.	6.90
90-130	413.11	N.A.	8.20
90-150	480.70	N.A.	9.60
90-180	493.37	N.A.	9.80
110-180	240.82	N.A.	4.80
0-180	5013.03	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	159.82
10-20	454.21
20-30	670.36
30-40	771.66
40-50	748.45
50-60	650.38
60-70	511.29
70-80	348.25
80-90	205.24
90-100	138.18
100-110	114.36
110-120	92.45
120-130	68.11
130-140	44.14
140-150	23.45
150-160	9.81
160-170	2.71
170-180	0.15

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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	18.7	20.1	19.2	20.6	21.2	20.9	22.4	21.5	22.9	23.4
	3H	19.9	21.1	20.4	21.7	22.2	23.3	24.6	23.9	25.1	25.7
	4H	20.2	21.4	20.7	21.9	22.5	24.5	25.7	25.0	26.2	26.8
	6H	20.3	21.5	20.9	22.0	22.6	25.6	26.7	26.2	27.3	27.9
	8H	20.3	21.4	20.9	22.0	22.6	26.2	27.3	26.8	27.8	28.5
	12H	20.3	21.4	20.9	21.9	22.6	26.8	27.8	27.4	28.4	29.1

UGR Viewed Endwise

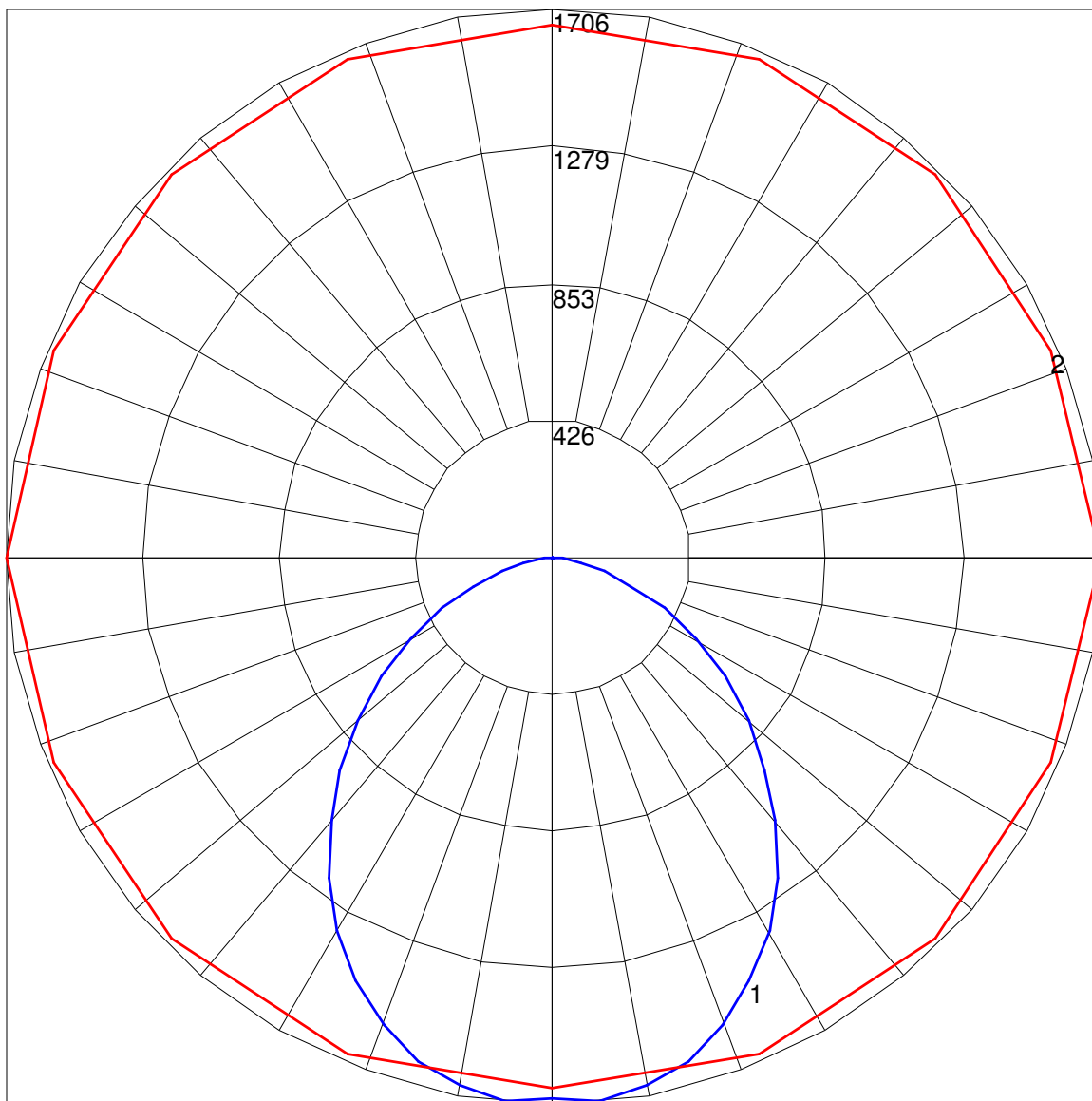
4H	2H	19.5	20.7	20.0	21.2	21.9	21.3	22.5	21.8	23.0	23.7
	3H	20.9	21.9	21.5	22.5	23.2	23.9	24.9	24.5	25.5	26.1
	4H	21.4	22.3	21.9	22.9	23.5	25.2	26.1	25.8	26.7	27.4
	6H	21.6	22.4	22.2	23.1	23.7	26.5	27.3	27.1	27.9	28.6
	8H	21.7	22.4	22.3	23.1	23.7	27.2	28.0	27.8	28.6	29.3
	12H	21.7	22.4	22.3	23.0	23.7	27.9	28.6	28.5	29.3	30.0

8H	4H	22.0	22.8	22.6	23.4	24.1	25.3	26.1	25.9	26.7	27.4
	6H	22.4	23.1	23.1	23.7	24.4	26.8	27.5	27.5	28.1	28.8
	8H	22.6	23.1	23.2	23.8	24.5	27.6	28.2	28.3	28.9	29.6
	12H	22.6	23.1	23.3	23.8	24.6	28.5	29.0	29.2	29.7	30.5

12H	4H	22.2	22.9	22.8	23.5	24.2	25.3	26.0	25.9	26.7	27.4
	6H	22.7	23.3	23.4	23.9	24.7	26.8	27.4	27.5	28.0	28.8
	8H	22.9	23.4	23.6	24.1	24.9	27.7	28.2	28.3	28.9	29.6

Maximum UGR = 30.5

POLAR GRAPH



Maximum Candela = 1705.967 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.)