



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75S-8-L90-8FS-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] 04-NOV-2019

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 8' SURFACE MOUNT STRIP LUMINAIRE

[MORE] WHITE REFLECTOR w/FROSTED ACRYLIC SQUARE LENS

[LUMCAT] 75S-8-L90-8FS-DIM-UNV

[_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	8592
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	150
Total Luminaire Watts	57.2
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)	0.21 ft
Luminous Height	0.08 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	15637	12557	11800
55	13318	10546	10574
65	10537	9033	9605
75	7374	7411	8521
85	3527	6329	7470

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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	2898.997	2898.997	2898.997	2898.997	2898.997
5	2923.931	2887.185	2885.873	2879.311	2845.190
10	2874.062	2841.253	2843.878	2836.003	2804.507
15	2794.008	2762.511	2770.386	2762.511	2736.264
20	2660.148	2636.525	2660.148	2648.336	2620.777
25	2494.791	2485.604	2506.602	2505.289	2464.606
30	2312.373	2316.310	2339.932	2339.932	2290.063
35	2089.272	2120.769	2132.580	2136.517	2085.335
40	1846.486	1893.731	1883.232	1904.230	1877.983
45	1608.950	1650.945	1648.320	1686.379	1679.817
50	1366.164	1404.222	1434.406	1498.712	1511.835
55	1116.816	1164.061	1230.991	1326.793	1370.101
60	881.904	939.648	1053.823	1171.935	1228.366
65	656.178	748.043	891.090	1026.263	1084.007
70	450.138	570.875	724.421	871.405	939.648
75	286.094	401.581	574.812	721.796	790.039
80	156.170	267.721	451.451	585.311	648.304
85	49.870	164.045	342.525	461.950	521.006
90	0.000	106.301	261.159	372.709	413.392
95	0.000	97.114	244.098	341.213	364.835
100	0.000	91.865	227.038	311.029	332.026
105	0.000	83.991	212.602	287.406	308.404
110	0.000	78.741	198.166	269.033	290.031
115	0.000	72.180	181.105	251.973	271.658
120	0.000	61.681	162.732	228.350	251.973
125	0.000	51.182	146.984	208.665	229.662
130	0.000	41.995	127.299	186.355	200.791
135	0.000	38.058	102.364	161.420	175.856
140	0.000	31.497	80.054	135.173	149.609
145	0.000	24.935	61.681	104.989	119.424
150	0.000	18.373	47.245	80.054	91.865
155	0.000	14.436	38.058	57.744	66.930
160	0.000	0.000	27.559	41.995	47.245
165	0.000	0.000	18.373	30.184	32.809
170	0.000	0.000	0.000	18.373	19.685
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	1052.4	N.A.	12.20
0-30	2201.36	N.A.	25.60
0-40	3523.95	N.A.	41.00
0-60	5921.47	N.A.	68.90
0-80	7394.67	N.A.	86.10
0-90	7746.45	N.A.	90.20
10-90	7472.53	N.A.	87.00
20-40	2471.55	N.A.	28.80
20-50	3754.36	N.A.	43.70
40-70	3273.84	N.A.	38.10
60-80	1473.2	N.A.	17.10
70-80	596.88	N.A.	6.90
80-90	351.77	N.A.	4.10
90-110	432.85	N.A.	5.00
90-120	591.30	N.A.	6.90
90-130	708.04	N.A.	8.20
90-150	823.89	N.A.	9.60
90-180	845.60	N.A.	9.80
110-180	412.76	N.A.	4.80
0-180	8592.05	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	273.91
10-20	778.48
20-30	1148.96
30-40	1322.59
40-50	1282.8
50-60	1114.72
60-70	876.32
70-80	596.88
80-90	351.77
90-100	236.83
100-110	196.01
110-120	158.46
120-130	116.74
130-140	75.65
140-150	40.20
150-160	16.82
160-170	4.64
170-180	0.25

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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	187	187	187	187	181	181	181	181	169	169	169	159	159	159	149	149	149	144
1	169	161	154	147	163	156	149	143	146	141	136	137	133	129	129	126	122	118
2	154	140	129	120	148	136	126	117	128	119	112	120	113	107	113	107	102	98
3	140	123	110	100	135	120	107	98	113	102	94	106	98	90	100	93	87	83
4	129	109	95	85	124	106	93	83	100	89	80	95	85	78	89	82	75	71
5	118	98	84	73	114	95	82	72	90	79	70	85	75	68	81	72	65	62
6	109	88	74	64	105	86	73	63	82	70	61	77	67	60	73	65	58	54
7	102	80	66	57	98	78	65	56	74	63	54	71	61	53	67	58	52	48
8	95	73	60	51	91	71	59	50	68	57	49	65	55	48	62	53	46	43
9	88	67	54	46	85	66	53	45	63	52	44	60	50	43	57	48	42	39
10	83	62	50	41	80	61	49	41	58	47	40	56	46	39	53	45	38	35

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UGR TABLE - CORRECTED

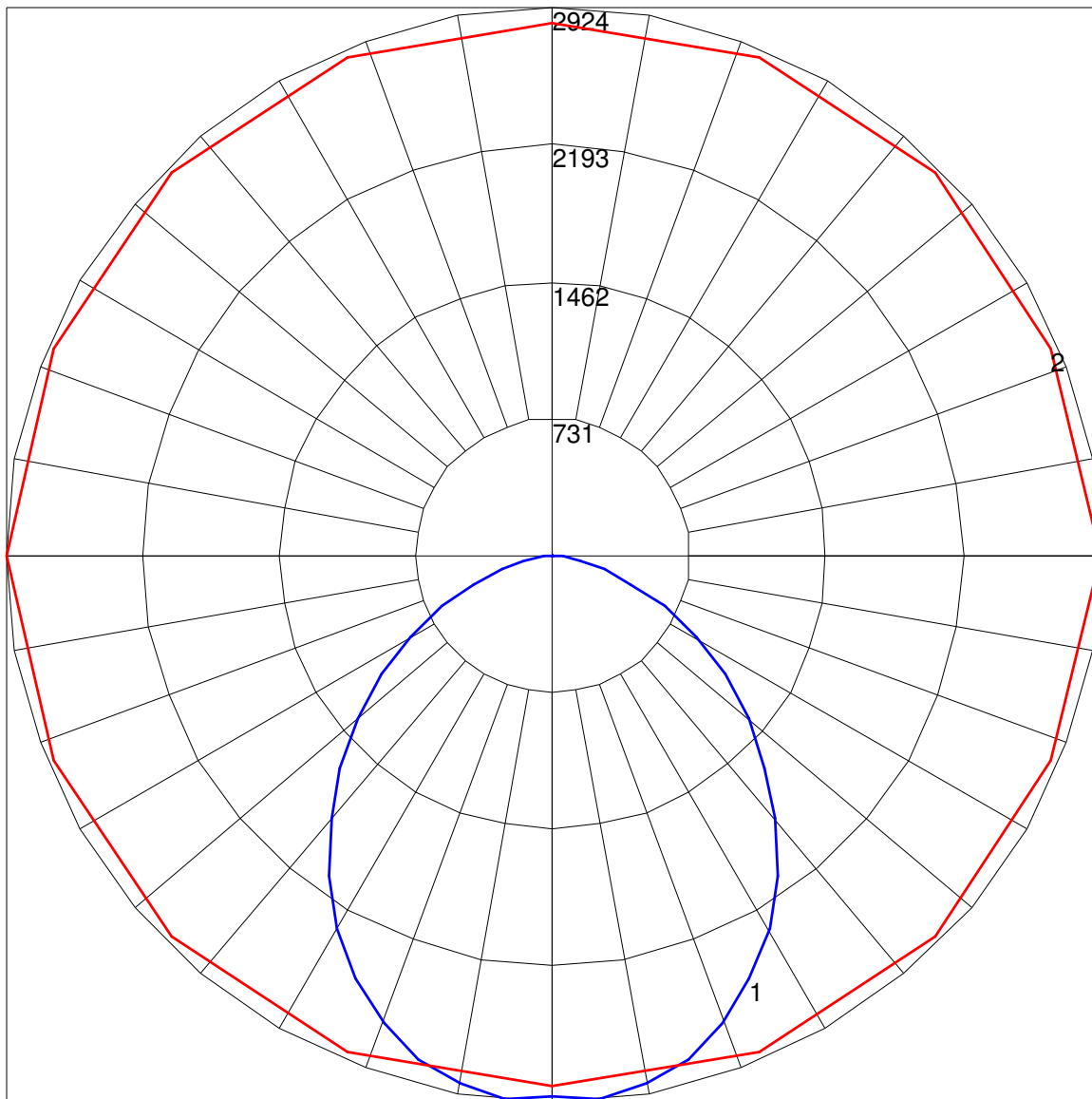
Reflectances

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	17.4	18.9	18.0	19.4	19.9	18.8	20.2	19.3	20.7	21.3
	3H	18.9	20.1	19.4	20.7	21.3	21.2	22.5	21.7	23.0	23.6
	4H	19.3	20.5	19.9	21.1	21.7	22.3	23.5	22.9	24.1	24.7
	6H	19.6	20.7	20.2	21.3	21.9	23.5	24.6	24.1	25.2	25.8
	8H	19.7	20.8	20.3	21.3	22.0	24.1	25.2	24.7	25.7	26.4
	12H	19.7	20.8	20.3	21.3	22.0	24.7	25.8	25.3	26.3	27.0
4H	2H	18.0	19.3	18.6	19.8	20.4	19.1	20.3	19.7	20.9	21.5
	3H	19.7	20.7	20.3	21.3	21.9	21.7	22.8	22.3	23.4	24.0
	4H	20.3	21.2	20.9	21.8	22.5	23.1	24.0	23.6	24.6	25.2
	6H	20.7	21.5	21.3	22.1	22.8	24.4	25.2	25.0	25.8	26.5
	8H	20.8	21.6	21.4	22.2	22.9	25.1	25.9	25.7	26.5	27.2
	12H	20.9	21.6	21.5	22.2	22.9	25.9	26.6	26.5	27.2	27.9
8H	4H	20.7	21.5	21.3	22.1	22.8	23.2	24.0	23.8	24.6	25.3
	6H	21.3	21.9	21.9	22.6	23.3	24.7	25.3	25.3	26.0	26.7
	8H	21.5	22.1	22.1	22.7	23.4	25.5	26.1	26.2	26.8	27.5
	12H	21.6	22.2	22.3	22.8	23.6	26.4	27.0	27.1	27.6	28.4
12H	4H	20.8	21.5	21.4	22.1	22.8	23.2	23.9	23.8	24.5	25.2
	6H	21.5	22.0	22.1	22.7	23.4	24.7	25.3	25.4	25.9	26.7
	8H	21.7	22.3	22.4	22.9	23.7	25.6	26.1	26.2	26.7	27.5

Maximum UGR = 28.4

POLAR GRAPH



Maximum Candela = 2923.931 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.)