



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75S-8-L60-835-(L50)-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] 31-JULY-2020

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 8' SURFACE MOUNT STRIP LED LUMINAIRE

[MORE] WHITE REFLECTOR w/FROSTED ACRYLIC SQUARE LENS

[LUMCAT] 75S-8-L60-835-(L50)-DIM-UNV

[LAMPCAT] HLM 80 CRI 3500K 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	4840
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	161
Total Luminaire Watts	30
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	8809	7073	6647
55	7502	5940	5956
65	5936	5089	5411
75	4154	4175	4800
85	1987	3565	4208

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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	1633.047	1633.047	1633.047	1633.047	1633.047
5	1647.093	1626.394	1625.655	1621.958	1602.737
10	1619.001	1600.519	1601.998	1597.562	1579.820
15	1573.906	1556.163	1560.599	1556.163	1541.378
20	1498.500	1485.193	1498.500	1491.847	1476.322
25	1405.352	1400.177	1412.006	1411.266	1388.349
30	1302.594	1304.811	1318.118	1318.118	1290.026
35	1176.918	1194.660	1201.314	1203.531	1174.700
40	1040.153	1066.766	1060.852	1072.681	1057.895
45	906.345	930.002	928.523	949.962	946.265
50	769.580	791.019	808.022	844.246	851.639
55	629.119	655.732	693.435	747.402	771.798
60	496.789	529.317	593.634	660.168	691.957
65	369.635	421.384	501.964	578.109	610.637
70	253.570	321.582	408.077	490.875	529.317
75	161.161	226.217	323.800	406.598	445.040
80	87.973	150.811	254.309	329.714	365.199
85	28.092	92.409	192.949	260.223	293.490
90	0.000	59.881	147.115	209.953	232.870
95	0.000	54.706	137.504	192.210	205.517
100	0.000	51.749	127.894	175.207	187.035
105	0.000	47.313	119.762	161.900	173.728
110	0.000	44.356	111.630	151.550	163.379
115	0.000	40.660	102.019	141.940	153.029
120	0.000	34.746	91.669	128.633	141.940
125	0.000	28.832	82.798	117.544	129.372
130	0.000	23.657	71.709	104.976	113.108
135	0.000	21.439	57.663	90.930	99.062
140	0.000	17.742	45.095	76.145	84.277
145	0.000	14.046	34.746	59.142	67.274
150	0.000	10.350	26.614	45.095	51.749
155	0.000	8.132	21.439	32.528	37.703
160	0.000	0.000	15.525	23.657	26.614
165	0.000	0.000	10.350	17.003	18.482
170	0.000	0.000	0.000	10.350	11.089
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	592.83	N.A.	12.20
0-30	1240.06	N.A.	25.60
0-40	1985.09	N.A.	41.00
0-60	3335.65	N.A.	68.90
0-80	4165.53	N.A.	86.10
0-90	4363.69	N.A.	90.20
10-90	4209.39	N.A.	87.00
20-40	1392.26	N.A.	28.80
20-50	2114.88	N.A.	43.70
40-70	1844.2	N.A.	38.10
60-80	829.88	N.A.	17.10
70-80	336.23	N.A.	6.90
80-90	198.16	N.A.	4.10
90-110	243.83	N.A.	5.00
90-120	333.09	N.A.	6.90
90-130	398.85	N.A.	8.20
90-150	464.11	N.A.	9.60
90-180	476.34	N.A.	9.80
110-180	232.51	N.A.	4.80
0-180	4840.03	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	154.30
10-20	438.53
20-30	647.23
30-40	745.03
40-50	722.62
50-60	627.94
60-70	493.65
70-80	336.23
80-90	198.16
90-100	133.41
100-110	110.42
110-120	89.26
120-130	65.76
130-140	42.62
140-150	22.64
150-160	9.47
160-170	2.61
170-180	0.14

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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**

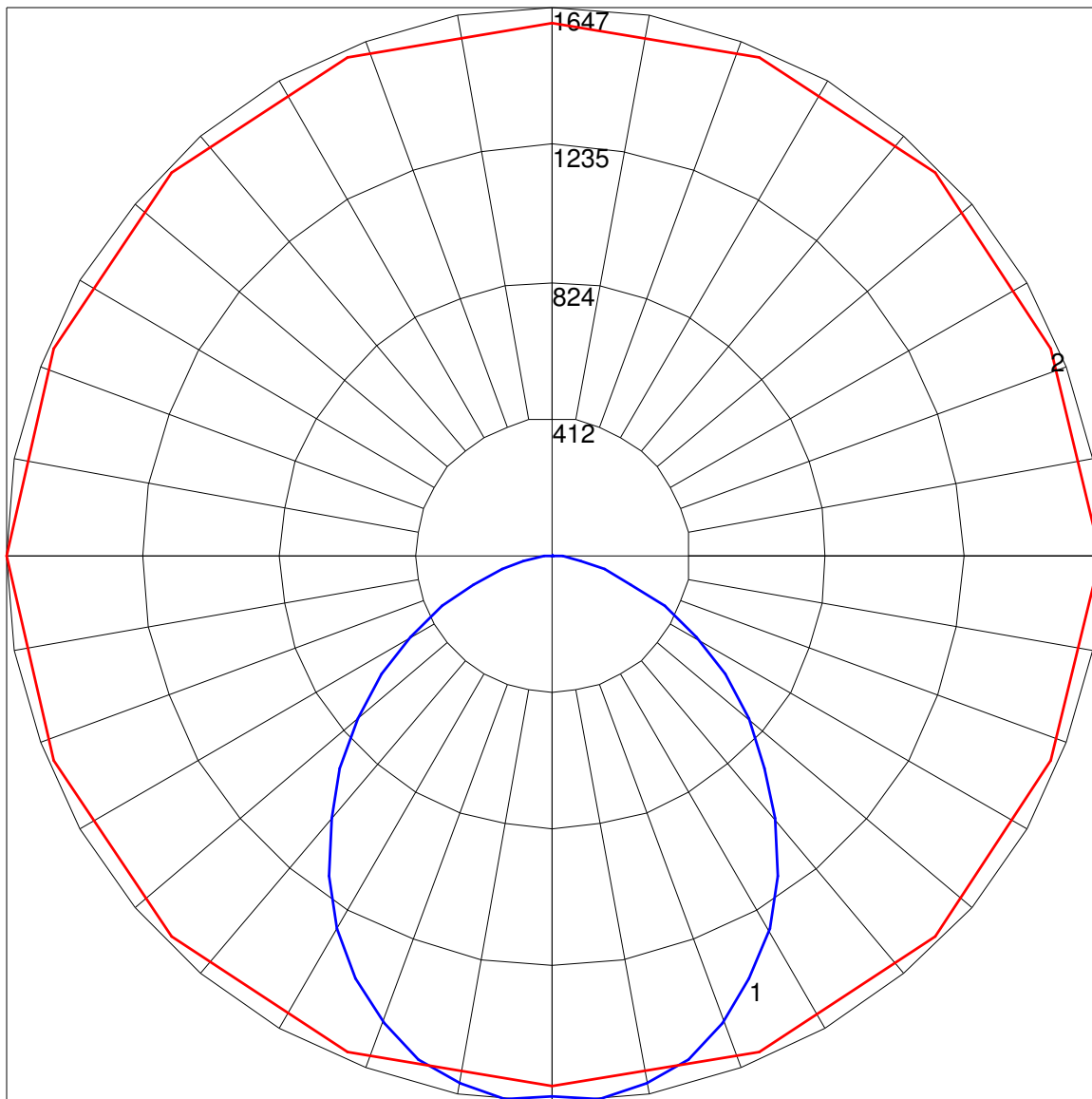
Reflectances

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					UGR Viewed Endwise				
X=2H	Y=2H	16.2	17.6	16.7	18.1	18.7	18.5	19.9	19.0	20.4	21.0
	3H	17.4	18.6	17.9	19.2	19.7	20.9	22.2	21.4	22.7	23.3
	4H	17.7	18.9	18.2	19.4	20.0	22.0	23.2	22.6	23.8	24.4
	6H	17.8	19.0	18.4	19.5	20.1	23.2	24.3	23.8	24.9	25.5
	8H	17.8	18.9	18.4	19.5	20.1	23.8	24.9	24.4	25.4	26.1
	12H	17.8	18.9	18.4	19.4	20.1	24.4	25.5	25.0	26.0	26.7
4H	2H	17.0	18.2	17.6	18.8	19.4	18.8	20.0	19.4	20.6	21.2
	3H	18.4	19.5	19.0	20.0	20.7	21.4	22.5	22.0	23.1	23.7
	4H	18.9	19.8	19.5	20.4	21.1	22.8	23.7	23.3	24.3	24.9
	6H	19.1	20.0	19.7	20.6	21.2	24.1	24.9	24.7	25.5	26.2
	8H	19.2	20.0	19.8	20.6	21.3	24.8	25.6	25.4	26.2	26.9
	12H	19.2	19.9	19.8	20.5	21.2	25.6	26.3	26.2	26.9	27.6
8H	4H	19.5	20.3	20.1	20.9	21.6	22.9	23.7	23.5	24.3	25.0
	6H	20.0	20.6	20.6	21.3	21.9	24.4	25.0	25.0	25.7	26.4
	8H	20.1	20.7	20.7	21.3	22.0	25.2	25.8	25.9	26.5	27.2
	12H	20.1	20.7	20.8	21.3	22.1	26.1	26.7	26.8	27.3	28.1
12H	4H	19.7	20.4	20.3	21.0	21.7	22.9	23.6	23.5	24.2	24.9
	6H	20.2	20.8	20.9	21.5	22.2	24.4	25.0	25.1	25.6	26.4
	8H	20.4	21.0	21.1	21.6	22.4	25.3	25.8	25.9	26.5	27.2

Maximum UGR = 28.1

POLAR GRAPH



Maximum Candela = 1647.093 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.)