



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75S-4-L60-8FS-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] 4' SURFACE MOUNT STRIP LUMINAIRE

[MORE] WHITE REFLECTOR w/FROSTED ACRYLIC SQUARE LENS

[LUMCAT] 75S-4-L60-8FS-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	5788
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	144
Total Luminaire Watts	40.3
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	20844	16819	15902
55	17671	14099	14250
65	13876	12048	12944
75	9556	9848	11484
85	4269	8354	10067

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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	1952.908	1952.908	1952.908	1952.908	1952.908
5	1969.706	1944.952	1944.068	1939.647	1916.662
10	1936.111	1914.009	1915.778	1910.473	1889.256
15	1882.183	1860.965	1866.270	1860.965	1843.284
20	1792.008	1776.095	1792.008	1784.051	1765.486
25	1680.615	1674.427	1688.572	1687.688	1660.282
30	1557.730	1560.382	1576.295	1576.295	1542.700
35	1407.438	1428.656	1436.612	1439.264	1404.786
40	1243.885	1275.712	1268.639	1282.784	1265.103
45	1083.869	1112.159	1110.391	1136.029	1131.608
50	920.316	945.954	966.287	1009.607	1018.448
55	752.343	784.169	829.257	893.794	922.968
60	594.094	632.993	709.907	789.474	827.489
65	442.035	503.919	600.283	691.342	730.241
70	303.236	384.570	488.006	587.022	632.993
75	192.727	270.525	387.222	486.238	532.210
80	105.204	180.350	304.120	394.295	436.730
85	33.595	110.509	230.742	311.192	350.975
90	0.000	71.610	175.930	251.076	278.482
95	0.000	65.421	164.437	229.858	245.771
100	0.000	61.885	152.944	209.524	223.669
105	0.000	56.580	143.219	193.611	207.756
110	0.000	53.044	133.494	181.234	195.379
115	0.000	48.624	122.002	169.741	183.002
120	0.000	41.551	109.625	153.828	169.741
125	0.000	34.479	99.016	140.567	154.712
130	0.000	28.290	85.755	125.538	135.263
135	0.000	25.638	68.957	108.740	118.465
140	0.000	21.218	53.928	91.059	100.784
145	0.000	16.797	41.551	70.726	80.450
150	0.000	12.377	31.826	53.928	61.885
155	0.000	9.725	25.638	38.899	45.088
160	0.000	0.000	18.565	28.290	31.826
165	0.000	0.000	12.377	20.334	22.102
170	0.000	0.000	0.000	12.377	13.261
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	708.95	N.A.	12.20
0-30	1482.95	N.A.	25.60
0-40	2373.91	N.A.	41.00
0-60	3989.00	N.A.	68.90
0-80	4981.42	N.A.	86.10
0-90	5218.39	N.A.	90.20
10-90	5033.87	N.A.	87.00
20-40	1664.96	N.A.	28.80
20-50	2529.12	N.A.	43.70
40-70	2205.43	N.A.	38.10
60-80	992.42	N.A.	17.10
70-80	402.09	N.A.	6.90
80-90	236.97	N.A.	4.10
90-110	291.59	N.A.	5.00
90-120	398.33	N.A.	6.90
90-130	476.97	N.A.	8.20
90-150	555.01	N.A.	9.60
90-180	569.64	N.A.	9.80
110-180	278.05	N.A.	4.80
0-180	5788.03	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	184.52
10-20	524.42
20-30	774.00
30-40	890.96
40-50	864.16
50-60	750.93
60-70	590.33
70-80	402.09
80-90	236.97
90-100	159.54
100-110	132.04
110-120	106.74
120-130	78.64
130-140	50.96
140-150	27.08
150-160	11.33
160-170	3.13
170-180	0.17

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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	266	266	266	266	257	257	257	257	241	241	241	226	226	226	212	212	212	206
1	241	229	219	210	232	222	213	204	208	201	194	195	189	184	184	179	174	168
2	219	200	184	170	211	194	179	167	182	170	159	171	161	152	161	153	146	140
3	200	176	157	142	192	170	153	139	160	146	134	151	139	129	143	132	124	118
4	183	156	136	121	176	151	133	119	143	127	115	135	121	111	127	116	107	101
5	169	140	119	104	162	136	117	103	128	112	99	121	107	96	115	103	93	88
6	156	126	106	91	150	122	104	90	116	100	87	110	96	85	105	92	82	77
7	145	114	95	81	139	111	93	80	106	89	78	101	86	75	96	83	73	69
8	135	104	85	72	130	102	84	71	97	81	69	92	78	68	88	75	66	61
9	126	96	77	65	122	94	76	64	89	74	63	85	71	61	82	69	60	55
10	118	89	71	59	114	87	70	58	83	68	57	79	65	56	76	63	55	50

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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	17.2	18.6	17.7	19.1	19.7	18.5	20.0	19.1	20.5	21.0
	3H	18.6	19.9	19.1	20.4	21.0	20.9	22.2	21.5	22.7	23.3
	4H	19.1	20.3	19.6	20.8	21.4	22.1	23.3	22.6	23.8	24.4
	6H	19.3	20.5	19.9	21.0	21.6	23.2	24.3	23.8	24.9	25.5
	8H	19.4	20.5	20.0	21.1	21.7	23.8	24.9	24.4	25.4	26.1
	12H	19.4	20.5	20.0	21.0	21.7	24.4	25.4	25.0	26.0	26.7

UGR Viewed Endwise

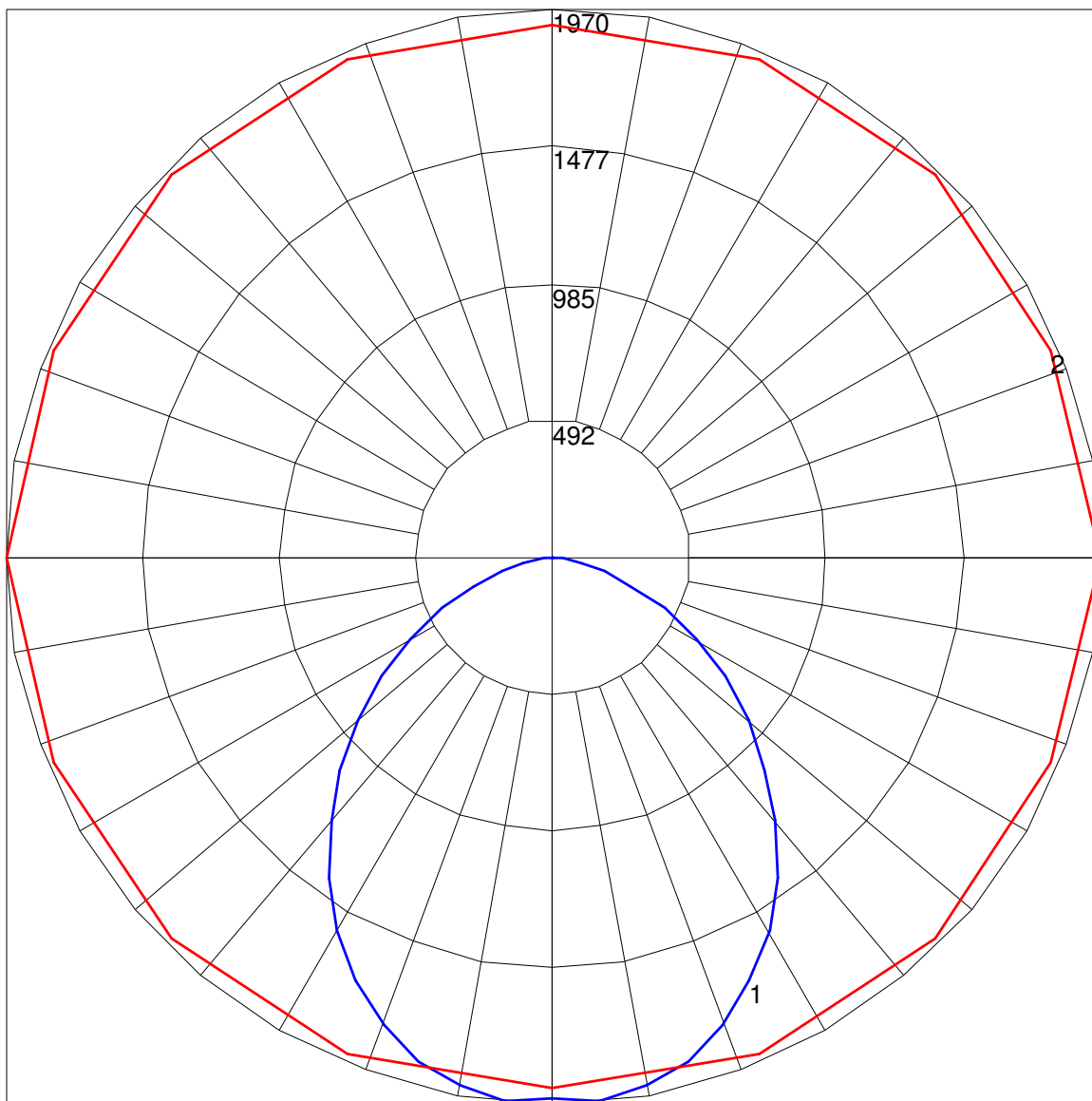
4H	2H	17.8	19.0	18.4	19.6	20.2	18.9	20.1	19.4	20.6	21.3
	3H	19.4	20.5	20.0	21.1	21.7	21.5	22.5	22.1	23.1	23.7
	4H	20.0	21.0	20.6	21.5	22.2	22.8	23.7	23.4	24.3	25.0
	6H	20.4	21.3	21.0	21.9	22.5	24.1	24.9	24.7	25.5	26.2
	8H	20.5	21.3	21.1	21.9	22.6	24.8	25.6	25.4	26.2	26.9
	12H	20.6	21.3	21.2	21.9	22.6	25.5	26.2	26.1	26.9	27.6

8H	4H	20.4	21.2	21.1	21.8	22.5	22.9	23.7	23.5	24.3	25.0
	6H	21.0	21.7	21.7	22.3	23.0	24.4	25.1	25.1	25.7	26.4
	8H	21.2	21.8	21.9	22.5	23.2	25.2	25.8	25.9	26.5	27.2
	12H	21.4	21.9	22.0	22.5	23.3	26.1	26.6	26.8	27.3	28.1

12H	4H	20.5	21.2	21.2	21.9	22.6	22.9	23.6	23.5	24.3	25.0
	6H	21.2	21.8	21.9	22.4	23.2	24.4	25.0	25.1	25.6	26.4
	8H	21.5	22.0	22.1	22.6	23.4	25.3	25.8	25.9	26.5	27.2

Maximum UGR = 28.1

POLAR GRAPH



Maximum Candela = 1969.706 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.)