



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75S-4-L40-8TW-DIM-UNV 4000K.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-L40-8TW-DIM-UNV 4000k

[\_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	3808
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	61
Total Luminaire Watts	62
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	13713	11066	10462
55	11626	9276	9375
65	9129	7927	8516
75	6287	6479	7556
85	2809	5496	6623

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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	1284.844	1284.844	1284.844	1284.844	1284.844
5	1295.895	1279.609	1279.027	1276.119	1260.996
10	1273.793	1259.252	1260.415	1256.925	1242.966
15	1238.312	1224.353	1227.843	1224.353	1212.720
20	1178.985	1168.516	1178.985	1173.750	1161.536
25	1105.698	1101.627	1110.933	1110.352	1092.321
30	1024.850	1026.595	1037.065	1037.065	1014.963
35	925.972	939.931	945.166	946.911	924.227
40	818.368	839.307	834.654	843.960	832.327
45	713.091	731.704	730.540	747.408	744.500
50	605.488	622.355	635.733	664.233	670.050
55	494.976	515.915	545.579	588.038	607.233
60	390.862	416.455	467.057	519.405	544.415
65	290.820	331.535	394.934	454.843	480.435
70	199.503	253.014	321.066	386.209	416.455
75	126.798	177.982	254.759	319.902	350.148
80	69.215	118.655	200.084	259.412	287.330
85	22.102	72.705	151.808	204.737	230.911
90	0.000	47.113	115.746	165.186	183.217
95	0.000	43.041	108.185	151.227	161.696
100	0.000	40.715	100.624	137.849	147.155
105	0.000	37.225	94.226	127.379	136.685
110	0.000	34.898	87.828	119.236	128.543
115	0.000	31.990	80.266	111.675	120.400
120	0.000	27.337	72.123	101.205	111.675
125	0.000	22.684	65.144	92.481	101.787
130	0.000	18.612	56.419	82.593	88.991
135	0.000	16.868	45.368	71.542	77.940
140	0.000	13.959	35.480	59.909	66.307
145	0.000	11.051	27.337	46.531	52.929
150	0.000	8.143	20.939	35.480	40.715
155	0.000	6.398	16.868	25.592	29.664
160	0.000	0.000	12.214	18.612	20.939
165	0.000	0.000	8.143	13.378	14.541
170	0.000	0.000	0.000	8.143	8.725
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	466.43	N.A.	12.20
0-30	975.65	N.A.	25.60
0-40	1561.82	N.A.	41.00
0-60	2624.41	N.A.	68.90
0-80	3277.34	N.A.	86.10
0-90	3433.25	N.A.	90.20
10-90	3311.85	N.A.	87.00
20-40	1095.4	N.A.	28.80
20-50	1663.94	N.A.	43.70
40-70	1450.98	N.A.	38.10
60-80	652.93	N.A.	17.10
70-80	264.54	N.A.	6.90
80-90	155.91	N.A.	4.10
90-110	191.84	N.A.	5.00
90-120	262.07	N.A.	6.90
90-130	313.81	N.A.	8.20
90-150	365.15	N.A.	9.60
90-180	374.77	N.A.	9.80
110-180	182.93	N.A.	4.80
0-180	3808.02	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	121.40
10-20	345.03
20-30	509.22
30-40	586.17
40-50	568.54
50-60	494.05
60-70	388.39
70-80	264.54
80-90	155.91
90-100	104.97
100-110	86.87
110-120	70.23
120-130	51.74
130-140	33.53
140-150	17.82
150-160	7.45
160-170	2.06
170-180	0.11

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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

Effective Floor Cavity Reflectance 0.20

RC RW	80				70				50			30			10			0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	68	68	68	68	66	66	66	66	61	61	61	58	58	58	54	54	54	52
1	61	59	56	53	59	57	54	52	53	51	49	50	48	47	47	46	44	43
2	56	51	47	43	54	49	46	43	46	43	41	44	41	39	41	39	37	36
3	51	45	40	36	49	43	39	36	41	37	34	39	35	33	36	34	32	30
4	47	40	35	31	45	39	34	30	36	32	29	34	31	28	33	30	27	26
5	43	36	30	27	41	35	30	26	33	29	25	31	27	25	29	26	24	22
6	40	32	27	23	38	31	26	23	30	25	22	28	24	22	27	23	21	20
7	37	29	24	21	36	28	24	20	27	23	20	26	22	19	24	21	19	17
8	34	27	22	18	33	26	21	18	25	21	18	24	20	17	22	19	17	16
9	32	24	20	17	31	24	19	16	23	19	16	22	18	16	21	18	15	14
10	30	23	18	15	29	22	18	15	21	17	15	20	17	14	19	16	14	13

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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	20.5	21.9	21.0	22.4	23.0	21.8	23.3	22.4	23.8	24.3
	3H	21.9	23.2	22.5	23.7	24.3	24.2	25.5	24.8	26.0	26.6
	4H	22.4	23.6	22.9	24.1	24.7	25.4	26.6	25.9	27.1	27.7
	6H	22.6	23.8	23.2	24.3	24.9	26.5	27.6	27.1	28.2	28.8
	8H	22.7	23.8	23.3	24.4	25.0	27.1	28.2	27.7	28.7	29.4
	12H	22.7	23.8	23.3	24.3	25.0	27.7	28.7	28.3	29.3	30.0

UGR Viewed Endwise

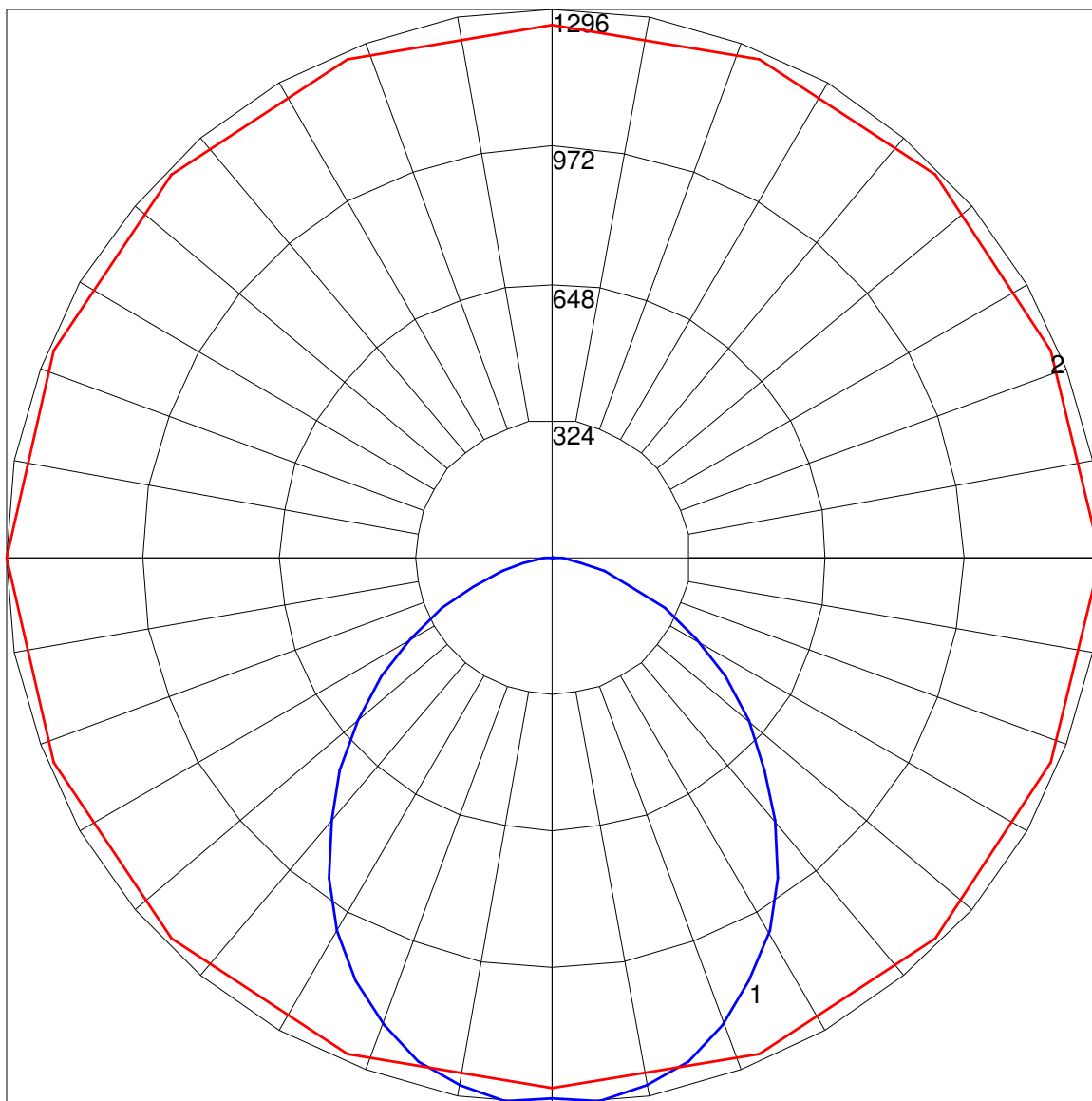
4H	2H	21.1	22.3	21.7	22.9	23.5	22.2	23.4	22.7	23.9	24.6
	3H	22.7	23.8	23.3	24.4	25.0	24.8	25.8	25.4	26.4	27.0
	4H	23.3	24.3	23.9	24.8	25.5	26.1	27.0	26.7	27.6	28.3
	6H	23.7	24.6	24.3	25.2	25.8	27.4	28.2	28.0	28.8	29.5
	8H	23.8	24.6	24.5	25.2	25.9	28.1	28.9	28.7	29.5	30.2
	12H	23.9	24.6	24.5	25.3	25.9	28.8	29.5	29.5	30.2	30.9

8H	4H	23.8	24.5	24.4	25.1	25.8	26.2	27.0	26.8	27.6	28.3
	6H	24.3	25.0	25.0	25.6	26.3	27.7	28.4	28.4	29.0	29.7
	8H	24.5	25.1	25.2	25.8	26.5	28.5	29.1	29.2	29.8	30.5
	12H	24.7	25.2	25.3	25.8	26.6	29.4	29.9	30.1	30.6	31.4

12H	4H	23.8	24.5	24.5	25.2	25.9	26.2	26.9	26.8	27.6	28.3
	6H	24.5	25.1	25.2	25.7	26.5	27.7	28.3	28.4	28.9	29.7
	8H	24.8	25.3	25.4	25.9	26.7	28.6	29.1	29.2	29.8	30.5

Maximum UGR = 31.4

POLAR GRAPH



Maximum Candela = 1295.895 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.)