



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75S-3-L40-835-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] 05-NOV-2019

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 3' SURFACE MOUNT STRIP LUMINAIRE

[MORE] WHITE REFLECTOR w/FROSTED ACRYLIC SQUARE LENS

[LUMCAT] 75S-3-L40-835-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	3693
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	137
Total Luminaire Watts	26.9
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)	2.80 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	17563	14217	13496
55	14846	11904	12093
65	11602	10156	10985
75	7909	8282	9746
85	3396	6995	8544

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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	1246.042	1246.042	1246.042	1246.042	1246.042
5	1256.759	1240.965	1240.401	1237.581	1222.915
10	1235.324	1221.223	1222.351	1218.966	1205.429
15	1200.916	1187.378	1190.763	1187.378	1176.097
20	1143.380	1133.227	1143.380	1138.304	1126.458
25	1072.307	1068.358	1077.383	1076.819	1059.333
30	993.900	995.593	1005.746	1005.746	984.311
35	898.008	911.545	916.622	918.314	896.315
40	793.654	813.960	809.448	818.473	807.191
45	691.556	709.606	708.478	724.837	722.016
50	587.202	603.560	616.534	644.174	649.815
55	480.028	500.335	529.102	570.280	588.894
60	379.058	403.878	452.952	503.719	527.974
65	282.038	321.523	383.007	441.107	465.926
70	193.478	245.373	311.369	374.546	403.878
75	122.968	172.607	247.065	310.241	339.573
80	67.125	115.071	194.042	251.578	278.653
85	21.435	70.509	147.224	198.554	223.938
90	0.000	45.690	112.251	160.197	177.684
95	0.000	41.742	104.918	146.660	156.813
100	0.000	39.485	97.585	133.686	142.711
105	0.000	36.101	91.380	123.532	132.558
110	0.000	33.845	85.175	115.635	124.661
115	0.000	31.024	77.842	108.302	116.764
120	0.000	26.512	69.945	98.149	108.302
125	0.000	21.999	63.176	89.688	98.713
130	0.000	18.050	54.715	80.099	86.303
135	0.000	16.358	43.998	69.381	75.586
140	0.000	13.538	34.409	58.100	64.305
145	0.000	10.717	26.512	45.126	51.331
150	0.000	7.897	20.307	34.409	39.485
155	0.000	6.205	16.358	24.819	28.768
160	0.000	0.000	11.846	18.050	20.307
165	0.000	0.000	7.897	12.974	14.102
170	0.000	0.000	0.000	7.897	8.461
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	452.34	N.A.	12.20
0-30	946.19	N.A.	25.60
0-40	1514.66	N.A.	41.00
0-60	2545.16	N.A.	68.90
0-80	3178.37	N.A.	86.10
0-90	3329.57	N.A.	90.20
10-90	3211.83	N.A.	87.00
20-40	1062.32	N.A.	28.80
20-50	1613.69	N.A.	43.70
40-70	1407.16	N.A.	38.10
60-80	633.21	N.A.	17.10
70-80	256.55	N.A.	6.90
80-90	151.20	N.A.	4.10
90-110	186.05	N.A.	5.00
90-120	254.15	N.A.	6.90
90-130	304.33	N.A.	8.20
90-150	354.12	N.A.	9.60
90-180	363.46	N.A.	9.80
110-180	177.41	N.A.	4.80
0-180	3693.02	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	117.73
10-20	334.61
20-30	493.85
30-40	568.47
40-50	551.37
50-60	479.13
60-70	376.66
70-80	256.55
80-90	151.20
90-100	101.80
100-110	84.25
110-120	68.11
120-130	50.18
130-140	32.52
140-150	17.28
150-160	7.23
160-170	1.99
170-180	0.11

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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	97	97	97	97	94	94	94	94	88	88	88	82	82	82	77	77	77	75
1	88	83	80	76	84	81	77	74	76	73	70	71	69	67	67	65	63	61
2	80	73	67	62	77	70	65	61	66	62	58	62	59	55	58	56	53	51
3	73	64	57	52	70	62	56	51	58	53	49	55	50	47	52	48	45	43
4	67	57	49	44	64	55	48	43	52	46	42	49	44	40	46	42	39	37
5	61	51	43	38	59	49	42	37	47	41	36	44	39	35	42	37	34	32
6	57	46	38	33	55	44	38	33	42	36	32	40	35	31	38	33	30	28
7	53	42	34	29	51	40	34	29	38	32	28	37	31	27	35	30	27	25
8	49	38	31	26	47	37	30	26	35	29	25	34	28	25	32	27	24	22
9	46	35	28	24	44	34	28	23	32	27	23	31	26	22	30	25	22	20
10	43	32	26	21	41	31	25	21	30	25	21	29	24	20	28	23	20	18

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**UGR TABLE - CORRECTED**

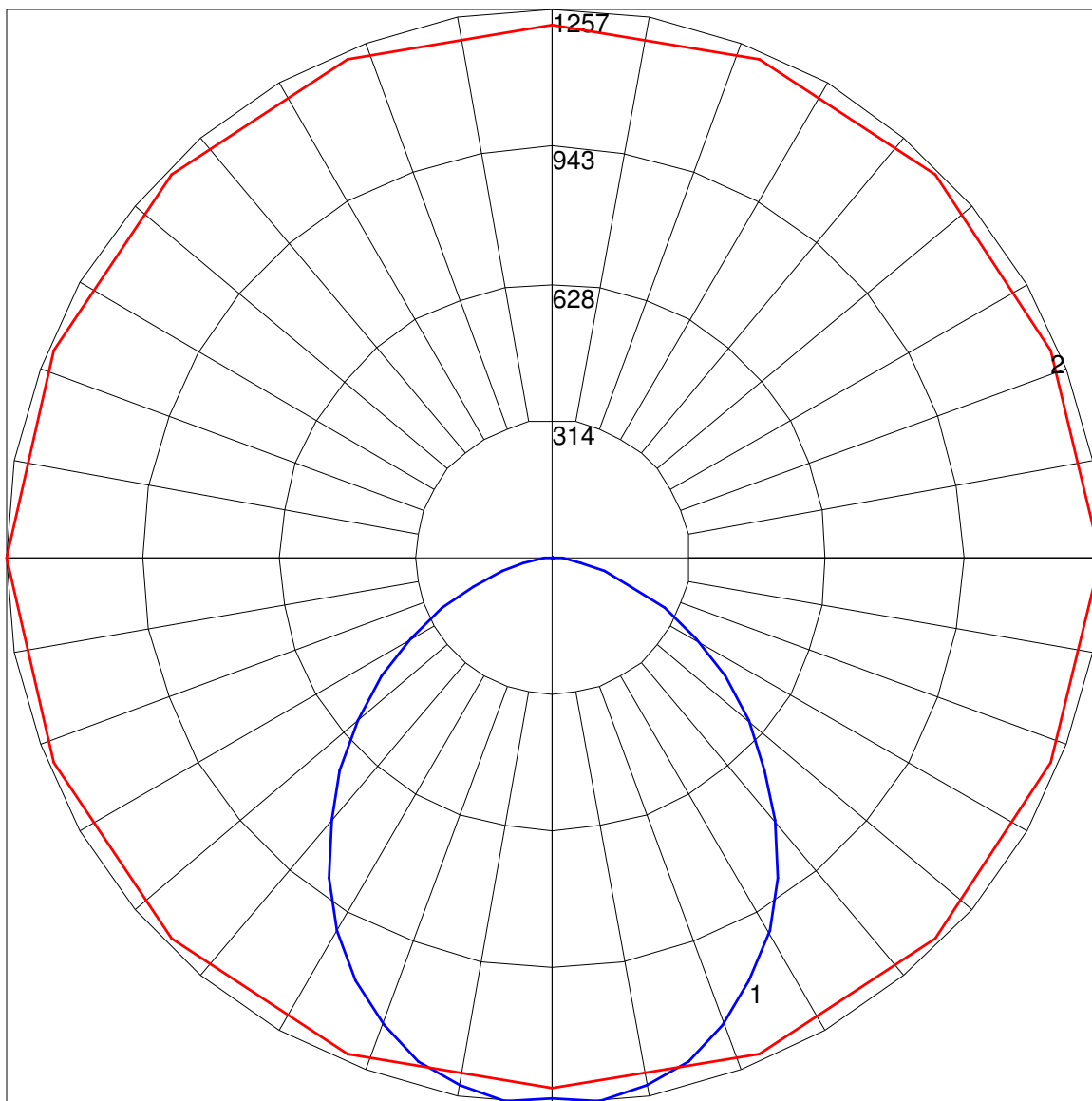
Reflectances

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	19.2	20.6	19.7	21.1	21.7	20.5	22.0	21.1	22.5	23.0
	3H	20.6	21.9	21.2	22.4	23.0	22.9	24.2	23.5	24.7	25.3
	4H	21.1	22.3	21.6	22.8	23.4	24.1	25.3	24.6	25.8	26.4
	6H	21.3	22.5	21.9	23.0	23.6	25.2	26.3	25.8	26.9	27.5
	8H	21.4	22.5	22.0	23.1	23.7	25.8	26.9	26.4	27.4	28.1
	12H	21.4	22.5	22.0	23.0	23.7	26.4	27.4	27.0	28.0	28.7
4H	2H	19.8	21.0	20.4	21.6	22.2	20.9	22.1	21.4	22.6	23.3
	3H	21.4	22.5	22.0	23.1	23.7	23.5	24.5	24.1	25.1	25.7
	4H	22.0	23.0	22.6	23.5	24.2	24.8	25.7	25.4	26.3	27.0
	6H	22.4	23.3	23.0	23.9	24.5	26.1	26.9	26.7	27.5	28.2
	8H	22.5	23.3	23.2	23.9	24.6	26.8	27.6	27.4	28.2	28.9
	12H	22.6	23.3	23.2	24.0	24.6	27.5	28.2	28.1	28.9	29.6
8H	4H	22.5	23.2	23.1	23.8	24.5	24.9	25.7	25.5	26.3	27.0
	6H	23.0	23.7	23.7	24.3	25.0	26.4	27.1	27.1	27.7	28.4
	8H	23.2	23.8	23.9	24.5	25.2	27.2	27.8	27.9	28.5	29.2
	12H	23.4	23.9	24.0	24.5	25.3	28.1	28.6	28.8	29.3	30.1
12H	4H	22.5	23.2	23.2	23.9	24.6	24.9	25.6	25.5	26.3	27.0
	6H	23.2	23.8	23.9	24.4	25.2	26.4	27.0	27.1	27.6	28.4
	8H	23.5	24.0	24.1	24.6	25.4	27.3	27.8	27.9	28.5	29.2

Maximum UGR = 30.1

POLAR GRAPH



Maximum Candela = 1256.759 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.)