



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75S-3-L64-835-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] 1-SEP-2020

[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-L64-835-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	6259
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	130
Total Luminaire Watts	48.2
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)	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	29766	24095	22873
55	25161	20175	20496
65	19663	17212	18618
75	13405	14036	16518
85	5755	11856	14480

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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	2111.827	2111.827	2111.827	2111.827	2111.827
5	2129.991	2103.223	2102.267	2097.487	2072.630
10	2093.663	2069.762	2071.674	2065.938	2042.994
15	2035.346	2012.402	2018.138	2012.402	1993.281
20	1937.833	1920.625	1937.833	1929.229	1909.153
25	1817.376	1810.683	1825.980	1825.024	1795.387
30	1684.490	1687.358	1704.566	1704.566	1668.238
35	1521.968	1544.913	1553.517	1556.385	1519.100
40	1345.106	1379.523	1371.875	1387.171	1368.051
45	1172.069	1202.661	1200.749	1228.473	1223.693
50	995.207	1022.931	1044.919	1091.764	1101.324
55	813.565	847.981	896.738	966.526	998.075
60	642.439	684.503	767.676	853.717	894.826
65	478.005	544.926	649.131	747.600	789.664
70	327.912	415.864	527.718	634.791	684.503
75	208.410	292.539	418.733	525.806	575.518
80	113.765	195.026	328.868	426.381	472.269
85	36.328	119.501	249.519	336.516	379.536
90	0.000	77.437	190.246	271.507	301.143
95	0.000	70.745	177.818	248.563	265.771
100	0.000	66.921	165.390	226.574	241.871
105	0.000	61.185	154.874	209.366	224.662
110	0.000	57.361	144.358	195.982	211.278
115	0.000	52.581	131.929	183.554	197.894
120	0.000	44.932	118.545	166.346	183.554
125	0.000	37.284	107.073	152.006	167.302
130	0.000	30.592	92.733	135.753	146.270
135	0.000	27.724	74.569	117.589	128.105
140	0.000	22.944	58.317	98.469	108.985
145	0.000	18.164	44.932	76.481	86.997
150	0.000	13.384	34.416	58.317	66.921
155	0.000	10.516	27.724	42.064	48.757
160	0.000	0.000	20.076	30.592	34.416
165	0.000	0.000	13.384	21.988	23.900
170	0.000	0.000	0.000	13.384	14.340
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	766.64	N.A.	12.20
0-30	1603.62	N.A.	25.60
0-40	2567.08	N.A.	41.00
0-60	4313.6	N.A.	68.90
0-80	5386.79	N.A.	86.10
0-90	5643.04	N.A.	90.20
10-90	5443.5	N.A.	87.00
20-40	1800.45	N.A.	28.80
20-50	2734.93	N.A.	43.70
40-70	2384.89	N.A.	38.10
60-80	1073.18	N.A.	17.10
70-80	434.81	N.A.	6.90
80-90	256.26	N.A.	4.10
90-110	315.32	N.A.	5.00
90-120	430.75	N.A.	6.90
90-130	515.78	N.A.	8.20
90-150	600.18	N.A.	9.60
90-180	616.00	N.A.	9.80
110-180	300.68	N.A.	4.80
0-180	6259.04	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	199.54
10-20	567.10
20-30	836.98
30-40	963.46
40-50	934.48
50-60	812.04
60-70	638.37
70-80	434.81
80-90	256.26
90-100	172.53
100-110	142.79
110-120	115.43
120-130	85.04
130-140	55.11
140-150	29.28
150-160	12.25
160-170	3.38
170-180	0.18

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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	188	188	188	188	182	182	182	182	170	170	170	160	160	160	150	150	150	145
1	170	162	155	148	164	157	150	144	147	142	137	138	134	130	130	126	123	119
2	155	141	130	120	149	137	126	118	128	120	113	121	114	108	114	108	103	99
3	141	124	111	100	136	120	108	98	113	103	95	107	98	91	101	94	87	83
4	129	110	96	85	124	107	94	84	101	90	81	95	86	78	90	82	75	71
5	119	99	84	74	115	96	82	72	91	79	70	86	76	68	81	73	66	62
6	110	89	75	64	106	86	73	63	82	70	62	78	68	60	74	65	58	55
7	102	81	67	57	98	79	66	56	75	63	55	71	61	53	68	59	52	48
8	95	74	60	51	92	72	59	50	68	57	49	65	55	48	62	53	47	43
9	89	68	55	46	86	66	54	45	63	52	44	60	50	43	58	49	42	39
10	83	63	50	42	81	61	49	41	58	48	40	56	46	39	54	45	38	36

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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	18.8	20.2	19.3	20.7	21.2	21.0	22.4	21.5	22.9	23.5
	3H	19.9	21.2	20.5	21.7	22.3	23.4	24.7	23.9	25.2	25.8
	4H	20.2	21.5	20.8	22.0	22.6	24.5	25.7	25.1	26.3	26.9
	6H	20.4	21.5	21.0	22.1	22.7	25.6	26.8	26.2	27.3	27.9
	8H	20.4	21.5	21.0	22.1	22.7	26.2	27.3	26.8	27.9	28.5
	12H	20.4	21.5	21.0	22.0	22.7	26.8	27.8	27.4	28.4	29.1

UGR Viewed Endwise

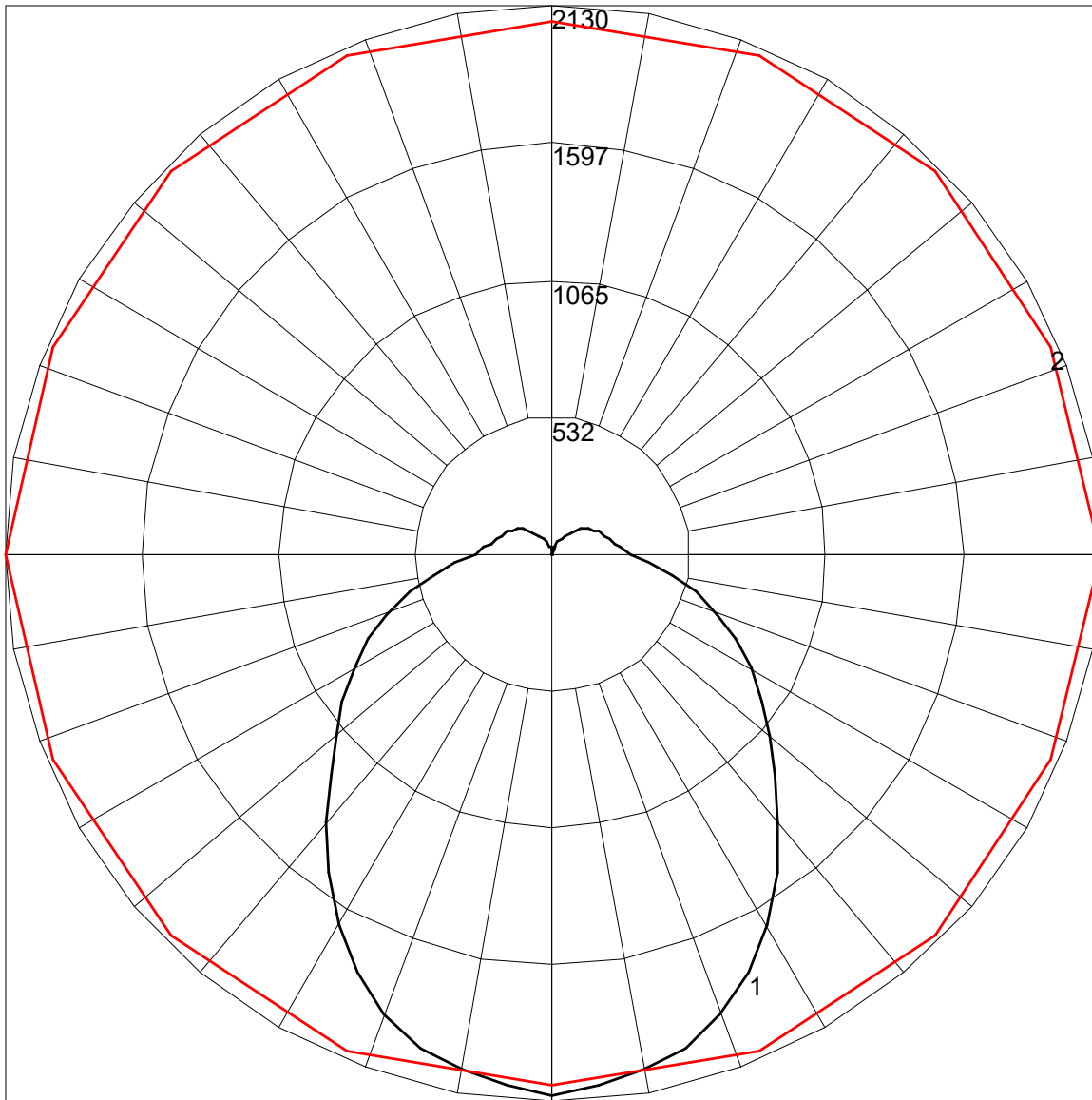
4H	2H	19.6	20.8	20.1	21.3	21.9	21.4	22.6	21.9	23.1	23.7
	3H	21.0	22.0	21.6	22.6	23.2	23.9	25.0	24.5	25.6	26.2
	4H	21.4	22.4	22.0	23.0	23.6	25.2	26.2	25.8	26.8	27.4
	6H	21.7	22.5	22.3	23.1	23.8	26.5	27.4	27.1	28.0	28.6
	8H	21.8	22.5	22.4	23.1	23.8	27.2	28.0	27.8	28.6	29.3
	12H	21.8	22.5	22.4	23.1	23.8	27.9	28.6	28.6	29.3	30.0

8H	4H	22.1	22.8	22.7	23.5	24.1	25.4	26.2	26.0	26.8	27.4
	6H	22.5	23.2	23.2	23.8	24.5	26.8	27.5	27.5	28.1	28.8
	8H	22.6	23.2	23.3	23.9	24.6	27.6	28.2	28.3	28.9	29.6
	12H	22.7	23.2	23.3	23.9	24.6	28.5	29.0	29.2	29.7	30.5

12H	4H	22.2	22.9	22.9	23.6	24.3	25.4	26.1	26.0	26.7	27.4
	6H	22.8	23.4	23.5	24.0	24.8	26.9	27.5	27.5	28.1	28.8
	8H	23.0	23.5	23.6	24.2	24.9	27.7	28.2	28.3	28.9	29.6

Maximum UGR = 30.5

POLAR GRAPH



Maximum Candela = 2129.991 Located At Horizontal Angle = 0, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (90 - 270)
2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)