



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75S-4-L50-835-(L42)-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] 28-OCT-2020

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] SURFACE MOUNT LED STRIP LUMINAIRE

[MORE] WHITE REFLECTOR w/FROSTED ACRYLIC SQUARE LENS

[LUMCAT] 75S-4-L50-835-(L42)-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	4204
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	150
Total Luminaire Watts	28
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	15140	12216	11550
55	12835	10241	10350
65	10079	8751	9402
75	6941	7153	8341
85	3101	6068	7312

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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	1418.457	1418.457	1418.457	1418.457	1418.457
5	1430.657	1412.677	1412.035	1408.825	1392.129
10	1406.256	1390.203	1391.487	1387.634	1372.223
15	1367.086	1351.675	1355.528	1351.675	1338.833
20	1301.590	1290.031	1301.590	1295.810	1282.326
25	1220.682	1216.187	1226.461	1225.819	1205.913
30	1131.426	1133.353	1144.911	1144.911	1120.510
35	1022.265	1037.676	1043.455	1045.381	1020.338
40	903.471	926.588	921.451	931.725	918.882
45	787.247	807.795	806.510	825.132	821.921
50	668.453	687.075	701.844	733.308	739.729
55	546.449	569.566	602.314	649.189	670.380
60	431.509	459.762	515.627	573.419	601.030
65	321.063	366.012	436.004	502.143	530.396
70	220.249	279.325	354.454	426.372	459.762
75	139.983	196.491	281.251	353.169	386.560
80	76.413	130.994	220.891	286.388	317.210
85	24.401	80.266	167.595	226.028	254.924
90	0.000	52.012	127.783	182.364	202.270
95	0.000	47.517	119.435	166.953	178.511
100	0.000	44.949	111.088	152.184	162.458
105	0.000	41.096	104.024	140.626	150.900
110	0.000	38.528	96.961	131.636	141.910
115	0.000	35.317	88.613	123.288	132.920
120	0.000	30.180	79.624	111.730	123.288
125	0.000	25.043	71.918	102.098	112.372
130	0.000	20.548	62.286	91.182	98.245
135	0.000	18.622	50.086	78.982	86.045
140	0.000	15.411	39.170	66.139	73.202
145	0.000	12.200	30.180	51.370	58.433
150	0.000	8.990	23.117	39.170	44.949
155	0.000	7.063	18.622	28.254	32.748
160	0.000	0.000	13.485	20.548	23.117
165	0.000	0.000	8.990	14.769	16.053
170	0.000	0.000	0.000	8.990	9.632
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	514.93	N.A.	12.20
0-30	1077.11	N.A.	25.60
0-40	1724.24	N.A.	41.00
0-60	2897.33	N.A.	68.90
0-80	3618.16	N.A.	86.10
0-90	3790.28	N.A.	90.20
10-90	3656.25	N.A.	87.00
20-40	1209.31	N.A.	28.80
20-50	1836.98	N.A.	43.70
40-70	1601.87	N.A.	38.10
60-80	720.83	N.A.	17.10
70-80	292.05	N.A.	6.90
80-90	172.12	N.A.	4.10
90-110	211.79	N.A.	5.00
90-120	289.32	N.A.	6.90
90-130	346.44	N.A.	8.20
90-150	403.12	N.A.	9.60
90-180	413.75	N.A.	9.80
110-180	201.96	N.A.	4.80
0-180	4204.02	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	134.02
10-20	380.91
20-30	562.18
30-40	647.13
40-50	627.67
50-60	545.42
60-70	428.78
70-80	292.05
80-90	172.12
90-100	115.88
100-110	95.91
110-120	77.53
120-130	57.12
130-140	37.02
140-150	19.67
150-160	8.23
160-170	2.27
170-180	0.12

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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**

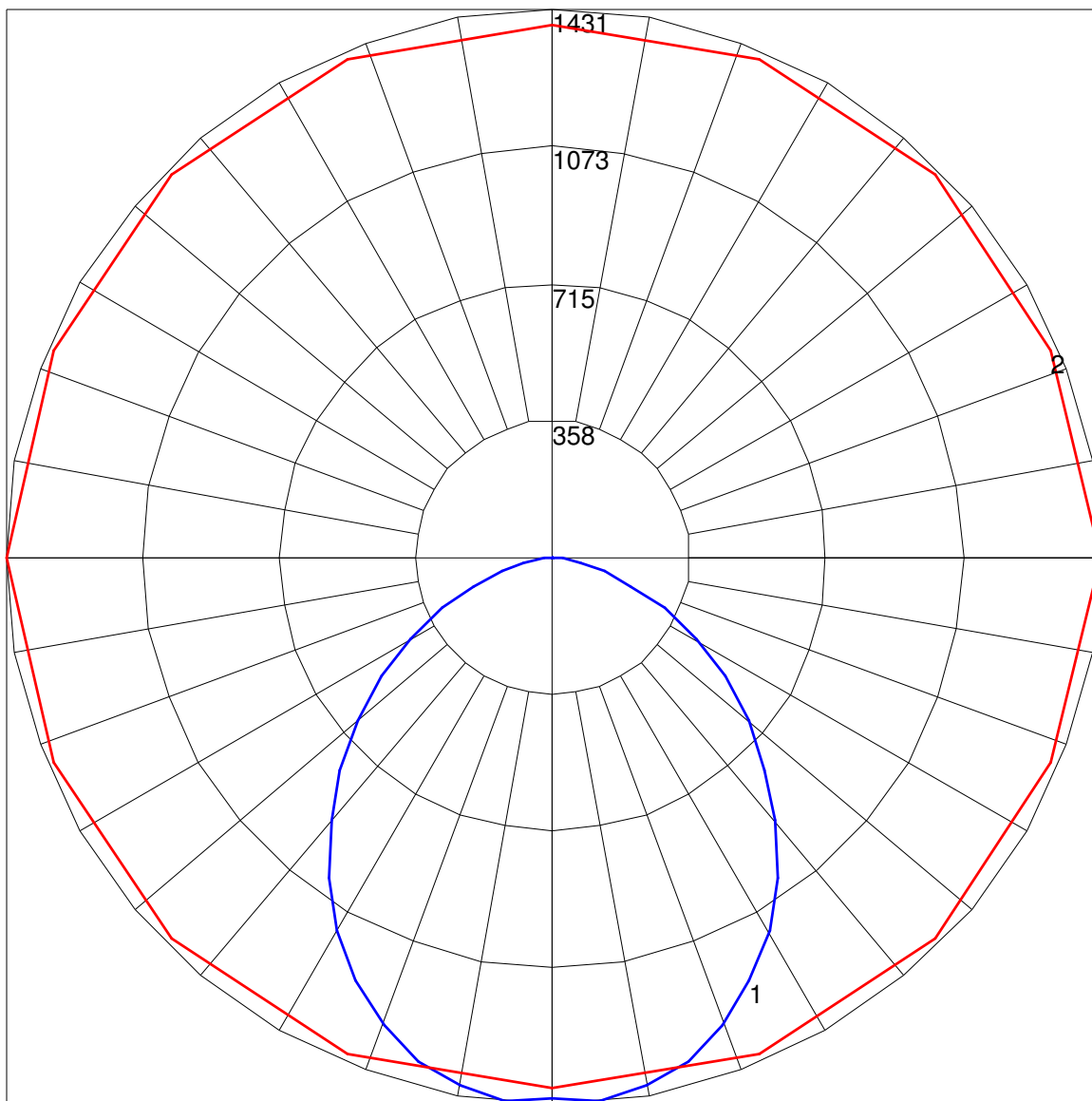
Reflectances

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	18.1	19.5	18.6	20.0	20.6	20.3	21.8	20.9	22.3	22.8
	3H	19.3	20.5	19.8	21.1	21.6	22.7	24.0	23.3	24.5	25.1
	4H	19.6	20.8	20.1	21.3	21.9	23.9	25.1	24.4	25.6	26.2
	6H	19.7	20.9	20.3	21.4	22.0	25.0	26.1	25.6	26.7	27.3
	8H	19.7	20.8	20.3	21.4	22.0	25.6	26.7	26.2	27.2	27.9
	12H	19.7	20.8	20.3	21.3	22.0	26.2	27.2	26.8	27.8	28.5
4H	2H	18.9	20.1	19.4	20.6	21.3	20.7	21.9	21.2	22.4	23.1
	3H	20.3	21.3	20.9	21.9	22.6	23.3	24.3	23.9	24.9	25.5
	4H	20.8	21.7	21.3	22.3	22.9	24.6	25.5	25.2	26.1	26.8
	6H	21.0	21.8	21.6	22.5	23.1	25.9	26.7	26.5	27.3	28.0
	8H	21.1	21.9	21.7	22.5	23.1	26.6	27.4	27.2	28.0	28.7
	12H	21.1	21.8	21.7	22.4	23.1	27.3	28.0	28.0	28.7	29.4
8H	4H	21.4	22.2	22.0	22.8	23.5	24.7	25.5	25.3	26.1	26.8
	6H	21.8	22.5	22.5	23.1	23.8	26.2	26.9	26.9	27.5	28.2
	8H	22.0	22.5	22.6	23.2	23.9	27.0	27.6	27.7	28.3	29.0
	12H	22.0	22.5	22.7	23.2	24.0	27.9	28.4	28.6	29.1	29.9
12H	4H	21.6	22.3	22.2	22.9	23.6	24.7	25.4	25.3	26.1	26.8
	6H	22.1	22.7	22.8	23.3	24.1	26.2	26.8	26.9	27.4	28.2
	8H	22.3	22.8	23.0	23.5	24.3	27.1	27.6	27.7	28.3	29.0

Maximum UGR = 29.9

POLAR GRAPH



Maximum Candela = 1430.657 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.)