



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75S-4-L50-835-(L35)-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] 01-24-2025

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 4' LED STRIP LUMINAIRE

[MORE] WHITE REFLECTOR w/FROSTED ACRYLIC SQUARE LENS

[LUMCAT] 75S-4-L50-835-(L35)-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	3512
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	156
Total Luminaire Watts	22.5
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	12648	10206	9649
55	10723	8555	8646
65	8420	7310	7854
75	5798	5976	6968
85	2591	5069	6108

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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	1184.972	1184.972	1184.972	1184.972	1184.972
5	1195.164	1180.144	1179.607	1176.925	1162.978
10	1174.779	1161.369	1162.441	1159.223	1146.349
15	1142.057	1129.183	1132.401	1129.183	1118.454
20	1087.341	1077.686	1087.341	1082.514	1071.249
25	1019.751	1015.996	1024.579	1024.043	1007.414
30	945.188	946.797	956.453	956.453	936.068
35	853.995	866.869	871.697	873.306	852.386
40	754.756	774.067	769.776	778.358	767.630
45	657.662	674.828	673.755	689.311	686.629
50	558.423	573.979	586.317	612.602	617.966
55	456.501	475.812	503.170	542.330	560.032
60	360.480	384.083	430.752	479.031	502.097
65	268.214	305.764	364.235	419.487	443.090
70	183.995	233.347	296.109	356.189	384.083
75	116.942	164.147	234.956	295.036	322.930
80	63.835	109.432	184.532	239.247	264.996
85	20.384	67.054	140.008	188.823	212.962
90	0.000	43.451	106.749	152.346	168.975
95	0.000	39.696	99.776	139.472	149.127
100	0.000	37.550	92.802	127.134	135.717
105	0.000	34.331	86.901	117.478	126.061
110	0.000	32.186	81.001	109.968	118.551
115	0.000	29.504	74.027	102.994	111.041
120	0.000	25.212	66.517	93.339	102.994
125	0.000	20.921	60.080	85.292	93.875
130	0.000	17.166	52.034	76.173	82.074
135	0.000	15.556	41.841	65.981	71.881
140	0.000	12.874	32.722	55.252	61.153
145	0.000	10.192	25.212	42.914	48.815
150	0.000	7.510	19.311	32.722	37.550
155	0.000	5.901	15.556	23.603	27.358
160	0.000	0.000	11.265	17.166	19.311
165	0.000	0.000	7.510	12.338	13.411
170	0.000	0.000	0.000	7.510	8.046
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	430.17	N.A.	12.20
0-30	899.81	N.A.	25.60
0-40	1440.42	N.A.	41.00
0-60	2420.42	N.A.	68.90
0-80	3022.59	N.A.	86.10
0-90	3166.38	N.A.	90.20
10-90	3054.42	N.A.	87.00
20-40	1010.25	N.A.	28.80
20-50	1534.6	N.A.	43.70
40-70	1338.19	N.A.	38.10
60-80	602.18	N.A.	17.10
70-80	243.98	N.A.	6.90
80-90	143.79	N.A.	4.10
90-110	176.93	N.A.	5.00
90-120	241.70	N.A.	6.90
90-130	289.41	N.A.	8.20
90-150	336.77	N.A.	9.60
90-180	345.64	N.A.	9.80
110-180	168.72	N.A.	4.80
0-180	3512.02	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	111.96
10-20	318.21
20-30	469.64
30-40	540.61
40-50	524.35
50-60	455.64
60-70	358.20
70-80	243.98
80-90	143.79
90-100	96.81
100-110	80.12
110-120	64.77
120-130	47.72
130-140	30.92
140-150	16.43
150-160	6.87
160-170	1.90
170-180	0.10

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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

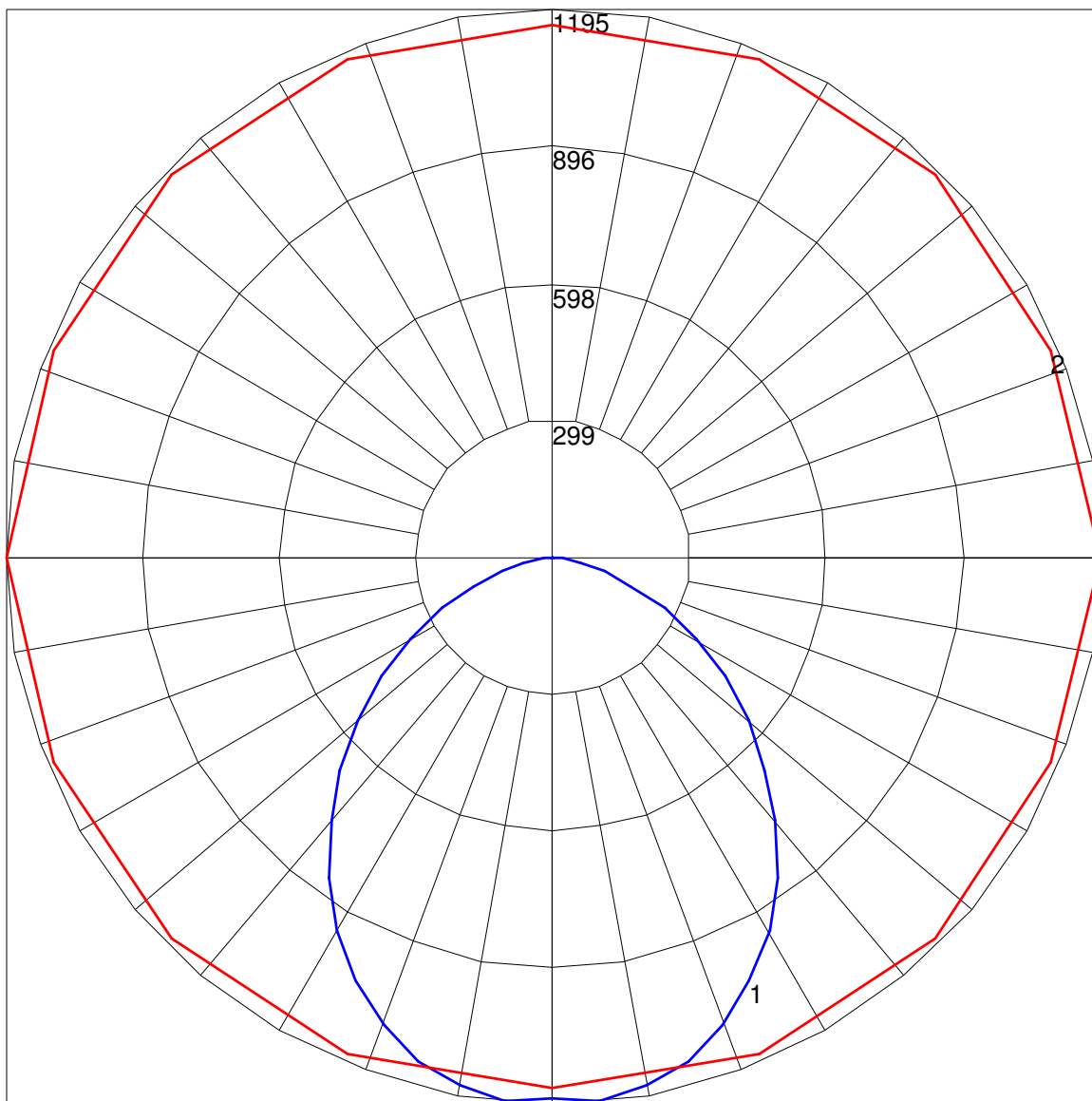
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UGR TABLE - CORRECTED

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	17.5	18.9	18.0	19.4	20.0	19.7	21.2	20.3	21.7	22.2
	3H	18.7	19.9	19.2	20.5	21.0	22.1	23.4	22.7	23.9	24.5
	4H	19.0	20.2	19.5	20.7	21.3	23.3	24.5	23.8	25.0	25.6
	6H	19.1	20.3	19.7	20.8	21.4	24.4	25.5	25.0	26.1	26.7
	8H	19.1	20.2	19.7	20.8	21.4	25.0	26.1	25.6	26.6	27.3
	12H	19.1	20.2	19.7	20.7	21.4	25.6	26.6	26.2	27.2	27.9
4H	2H	18.3	19.5	18.8	20.0	20.7	20.1	21.3	20.6	21.8	22.5
	3H	19.7	20.7	20.3	21.3	22.0	22.7	23.7	23.3	24.3	24.9
	4H	20.2	21.1	20.7	21.7	22.3	24.0	24.9	24.6	25.5	26.2
	6H	20.4	21.2	21.0	21.9	22.5	25.3	26.1	25.9	26.7	27.4
	8H	20.5	21.2	21.1	21.9	22.5	26.0	26.8	26.6	27.4	28.1
	12H	20.5	21.2	21.1	21.8	22.5	26.7	27.4	27.3	28.1	28.8
8H	4H	20.8	21.6	21.4	22.2	22.9	24.1	24.9	24.7	25.5	26.2
	6H	21.2	21.9	21.9	22.5	23.2	25.6	26.3	26.3	26.9	27.6
	8H	21.4	21.9	22.0	22.6	23.3	26.4	27.0	27.1	27.7	28.4
	12H	21.4	21.9	22.1	22.6	23.4	27.3	27.8	28.0	28.5	29.3
12H	4H	21.0	21.7	21.6	22.3	23.0	24.1	24.8	24.7	25.5	26.2
	6H	21.5	22.1	22.2	22.7	23.5	25.6	26.2	26.3	26.8	27.6
	8H	21.7	22.2	22.4	22.9	23.7	26.5	27.0	27.1	27.7	28.4

Maximum UGR = 29.3

POLAR GRAPH



Maximum Candela = 1195.164 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.)