



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75S-4-L50-930-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] 12-JAN-2024

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 44.625 INCH LED STRIP LUMINAIRE

[MORE] WHITE REFLECTOR w/FROSTED ACRYLIC SQUARE LENS

[MORE] 0-10V DIMMING DRIVER

[LUMCAT] 75S-4-L50-930-DIM-UNV

[LAMPCAT] HLM 90 CRI 3000K 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	3991
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	121
Total Luminaire Watts	33
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	14373	11597	10965
55	12185	9722	9825
65	9568	8308	8925
75	6589	6791	7919
85	2944	5761	6941

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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	1346.589	1346.589	1346.589	1346.589	1346.589
5	1358.171	1341.103	1340.493	1337.445	1321.596
10	1335.007	1319.767	1320.986	1317.329	1302.699
15	1297.822	1283.192	1286.849	1283.192	1271.000
20	1235.643	1224.671	1235.643	1230.157	1217.356
25	1158.835	1154.568	1164.321	1163.712	1144.814
30	1074.101	1075.930	1086.903	1086.903	1063.738
35	970.471	985.101	990.587	992.416	968.642
40	857.696	879.642	874.765	884.518	872.326
45	747.360	766.867	765.648	783.326	780.278
50	634.585	652.264	666.284	696.154	702.250
55	518.763	540.708	571.797	616.298	636.414
60	409.646	436.468	489.503	544.366	570.578
65	304.796	347.468	413.913	476.701	503.523
70	209.090	265.173	336.495	404.769	436.468
75	132.891	186.535	267.001	335.276	366.975
80	72.541	124.357	209.700	271.878	301.139
85	23.165	76.199	159.104	214.576	242.008
90	0.000	49.377	121.309	173.124	192.022
95	0.000	45.110	113.384	158.494	169.467
100	0.000	42.671	105.459	144.473	154.227
105	0.000	39.014	98.754	133.501	143.254
110	0.000	36.576	92.048	124.966	134.720
115	0.000	33.528	84.124	117.042	126.186
120	0.000	28.651	75.589	106.069	117.042
125	0.000	23.774	68.274	96.925	106.679
130	0.000	19.507	59.130	86.562	93.268
135	0.000	17.678	47.548	74.980	81.685
140	0.000	14.630	37.185	62.788	69.494
145	0.000	11.582	28.651	48.767	55.473
150	0.000	8.534	21.945	37.185	42.671
155	0.000	6.706	17.678	26.822	31.089
160	0.000	0.000	12.801	19.507	21.945
165	0.000	0.000	8.534	14.021	15.240
170	0.000	0.000	0.000	8.534	9.144
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	488.84	N.A.	12.20
0-30	1022.54	N.A.	25.60
0-40	1636.88	N.A.	41.00
0-60	2750.53	N.A.	68.90
0-80	3434.84	N.A.	86.10
0-90	3598.24	N.A.	90.20
10-90	3471.01	N.A.	87.00
20-40	1148.04	N.A.	28.80
20-50	1743.91	N.A.	43.70
40-70	1520.71	N.A.	38.10
60-80	684.31	N.A.	17.10
70-80	277.25	N.A.	6.90
80-90	163.40	N.A.	4.10
90-110	201.06	N.A.	5.00
90-120	274.66	N.A.	6.90
90-130	328.89	N.A.	8.20
90-150	382.70	N.A.	9.60
90-180	392.78	N.A.	9.80
110-180	191.73	N.A.	4.80
0-180	3991.02	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	127.23
10-20	361.61
20-30	533.70
30-40	614.34
40-50	595.87
50-60	517.79
60-70	407.05
70-80	277.25
80-90	163.40
90-100	110.01
100-110	91.05
110-120	73.60
120-130	54.22
130-140	35.14
140-150	18.67
150-160	7.81
160-170	2.16
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

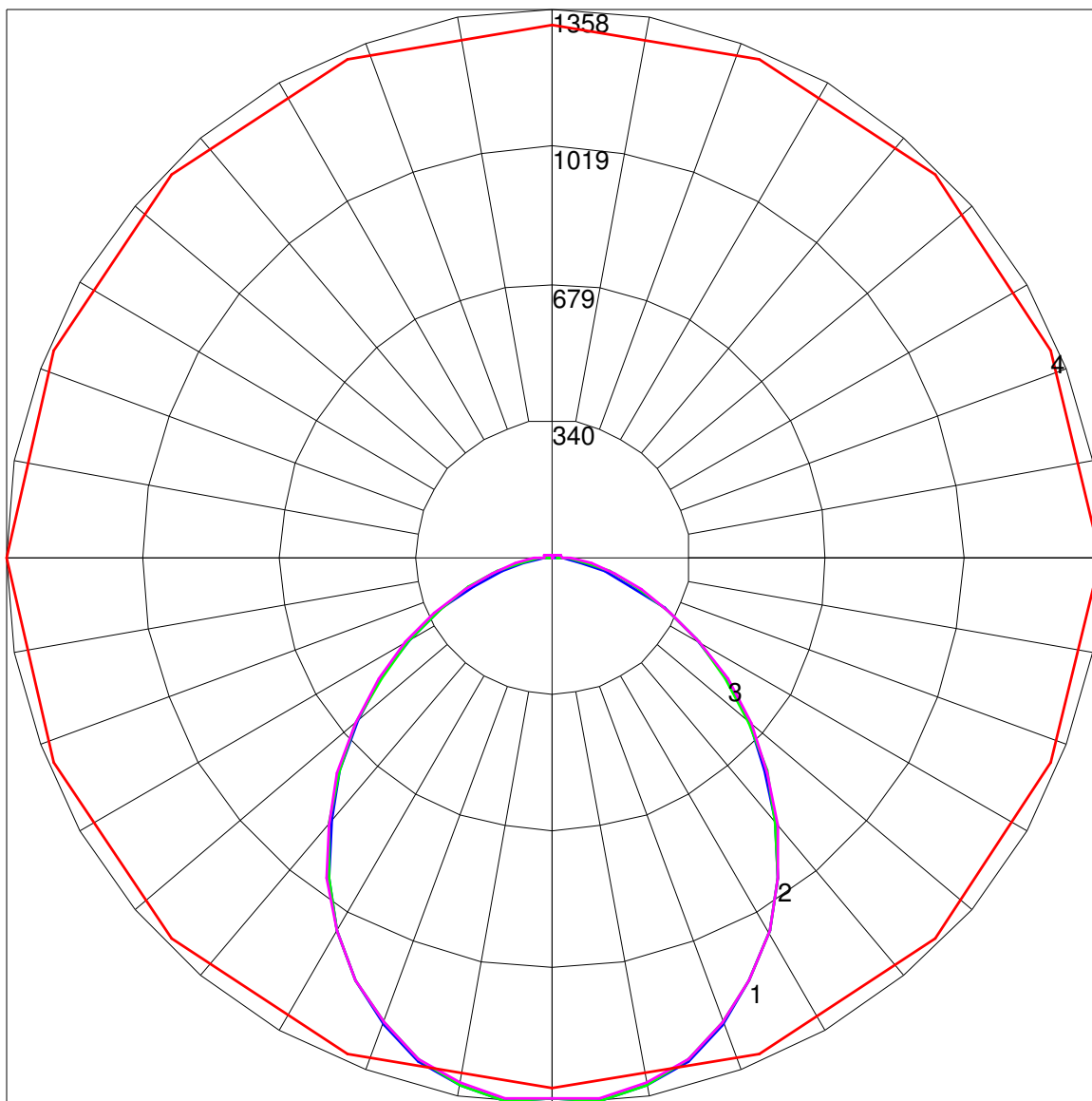
Reflectances

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	17.9	19.3	18.4	19.8	20.4	20.1	21.6	20.7	22.1	22.6
	3H	19.1	20.3	19.6	20.9	21.4	22.5	23.8	23.1	24.3	24.9
	4H	19.4	20.6	19.9	21.1	21.7	23.7	24.9	24.2	25.4	26.0
	6H	19.5	20.7	20.1	21.2	21.8	24.8	25.9	25.4	26.5	27.1
	8H	19.5	20.6	20.1	21.2	21.8	25.4	26.5	26.0	27.0	27.7
	12H	19.5	20.6	20.1	21.1	21.8	26.0	27.0	26.6	27.6	28.3
4H	2H	18.7	19.9	19.2	20.5	21.1	20.5	21.7	21.0	22.2	22.9
	3H	20.1	21.1	20.7	21.7	22.4	23.1	24.1	23.7	24.7	25.3
	4H	20.6	21.5	21.1	22.1	22.7	24.4	25.3	25.0	25.9	26.6
	6H	20.8	21.6	21.4	22.3	22.9	25.7	26.5	26.3	27.1	27.8
	8H	20.9	21.7	21.5	22.3	22.9	26.4	27.2	27.0	27.8	28.5
	12H	20.9	21.6	21.5	22.2	22.9	27.1	27.8	27.8	28.5	29.2
8H	4H	21.2	22.0	21.8	22.6	23.3	24.5	25.3	25.1	25.9	26.6
	6H	21.6	22.3	22.3	22.9	23.6	26.0	26.7	26.7	27.3	28.0
	8H	21.8	22.3	22.4	23.0	23.7	26.8	27.4	27.5	28.1	28.8
	12H	21.8	22.3	22.5	23.0	23.8	27.7	28.2	28.4	28.9	29.7
12H	4H	21.4	22.1	22.0	22.7	23.4	24.5	25.2	25.1	25.9	26.6
	6H	21.9	22.5	22.6	23.1	23.9	26.0	26.6	26.7	27.2	28.0
	8H	22.1	22.6	22.8	23.3	24.1	26.9	27.4	27.5	28.1	28.8

Maximum UGR = 29.7

POLAR GRAPH



Maximum Candela = 1358.171 Located At Horizontal Angle = 0, Vertical Angle = 5

1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)

2 - Vertical Plane Through Horizontal Angles (5 - 185)

3 - Vertical Plane Through Horizontal Angles (10 - 190)

4 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)