



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75S-4-L50-930-(L40)-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] 09-23-2022

[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-L50-930-(L40)-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	3323
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	126
Total Luminaire Watts	26.3
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	11967	9656	9130
55	10146	8095	8181
65	7967	6917	7431
75	5486	5654	6593
85	2451	4796	5780

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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	1121.202	1121.202	1121.202	1121.202	1121.202
5	1130.845	1116.633	1116.126	1113.588	1100.392
10	1111.558	1098.869	1099.884	1096.839	1084.657
15	1080.597	1068.415	1071.461	1068.415	1058.264
20	1028.825	1019.689	1028.825	1024.257	1013.599
25	964.873	961.320	969.441	968.933	953.199
30	894.322	895.845	904.981	904.981	885.693
35	808.037	820.218	824.786	826.309	806.514
40	714.138	732.410	728.350	736.471	726.319
45	622.269	638.511	637.496	652.215	649.678
50	528.371	543.090	554.764	579.634	584.710
55	431.934	450.206	476.092	513.144	529.893
60	341.081	363.413	407.571	453.252	475.077
65	253.780	289.310	344.634	396.912	419.245
70	174.093	220.789	280.173	337.020	363.413
75	110.648	155.314	222.312	279.158	305.552
80	60.400	103.542	174.601	226.372	250.735
85	19.287	63.445	132.473	178.661	201.502
90	0.000	41.112	101.005	144.147	159.882
95	0.000	37.559	94.406	131.966	141.102
100	0.000	35.529	87.808	120.292	128.413
105	0.000	32.484	82.225	111.156	119.277
110	0.000	30.454	76.642	104.050	112.171
115	0.000	27.916	70.043	97.452	105.065
120	0.000	23.855	62.938	88.316	97.452
125	0.000	19.795	56.847	80.702	88.823
130	0.000	16.242	49.233	72.074	77.657
135	0.000	14.719	39.590	62.430	68.013
140	0.000	12.181	30.961	52.279	57.862
145	0.000	9.644	23.855	40.605	46.188
150	0.000	7.106	18.272	30.961	35.529
155	0.000	5.583	14.719	22.333	25.886
160	0.000	0.000	10.659	16.242	18.272
165	0.000	0.000	7.106	11.674	12.689
170	0.000	0.000	0.000	7.106	7.613
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	407.02	N.A.	12.20
0-30	851.39	N.A.	25.60
0-40	1362.9	N.A.	41.00
0-60	2290.16	N.A.	68.90
0-80	2859.93	N.A.	86.10
0-90	2995.98	N.A.	90.20
10-90	2890.04	N.A.	87.00
20-40	955.88	N.A.	28.80
20-50	1452.02	N.A.	43.70
40-70	1266.18	N.A.	38.10
60-80	569.77	N.A.	17.10
70-80	230.85	N.A.	6.90
80-90	136.05	N.A.	4.10
90-110	167.41	N.A.	5.00
90-120	228.69	N.A.	6.90
90-130	273.84	N.A.	8.20
90-150	318.64	N.A.	9.60
90-180	327.04	N.A.	9.80
110-180	159.64	N.A.	4.80
0-180	3323.02	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	105.94
10-20	301.08
20-30	444.37
30-40	511.52
40-50	496.13
50-60	431.12
60-70	338.92
70-80	230.85
80-90	136.05
90-100	91.60
100-110	75.81
110-120	61.28
120-130	45.15
130-140	29.26
140-150	15.55
150-160	6.51
160-170	1.79
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

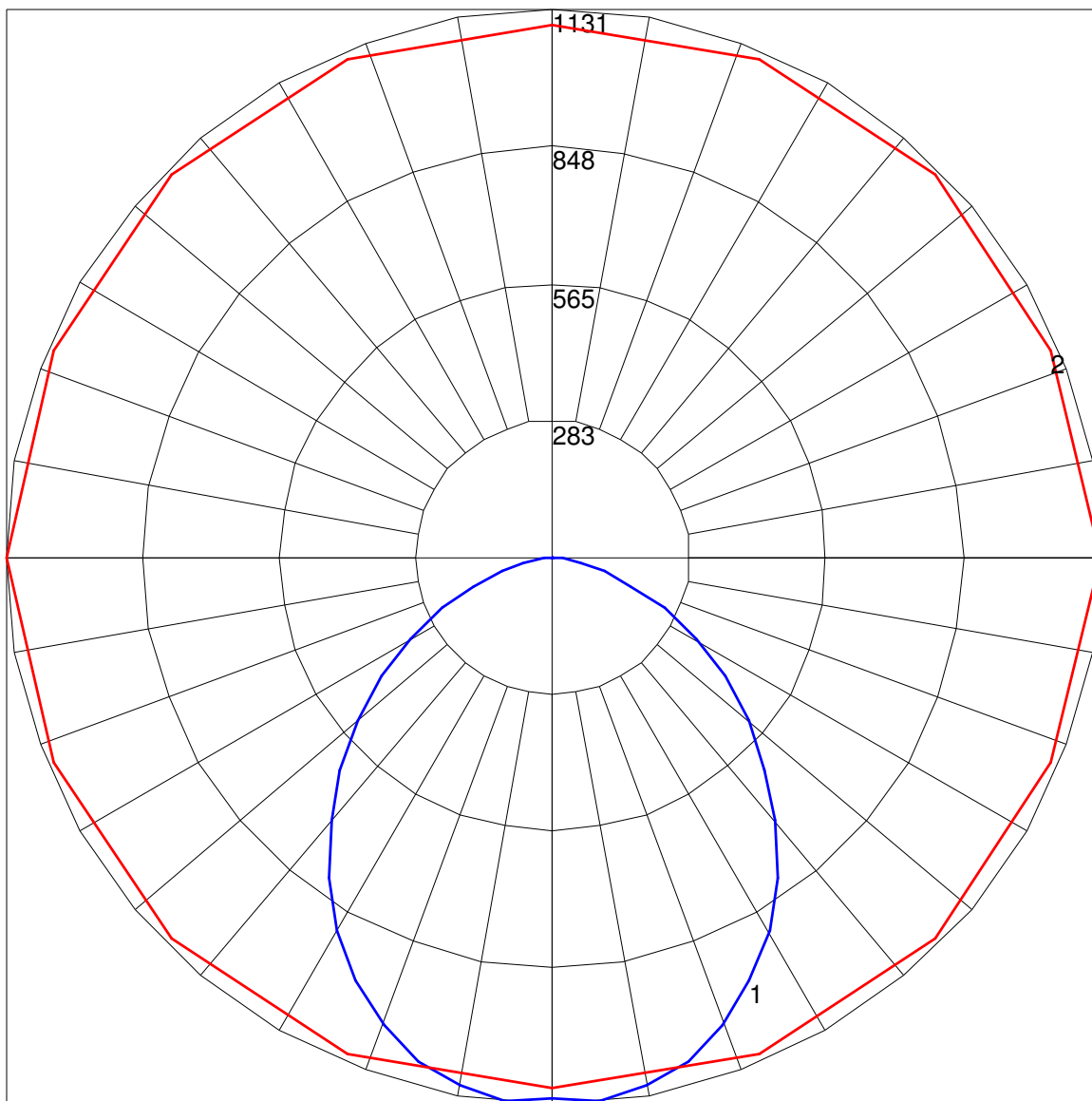
Reflectances

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	17.3	18.7	17.8	19.2	19.8	19.5	21.0	20.1	21.5	22.0
	3H	18.5	19.7	19.0	20.3	20.8	21.9	23.2	22.5	23.7	24.3
	4H	18.8	20.0	19.3	20.5	21.1	23.1	24.3	23.6	24.8	25.4
	6H	18.9	20.1	19.5	20.6	21.2	24.2	25.3	24.8	25.9	26.5
	8H	18.9	20.0	19.5	20.6	21.2	24.8	25.9	25.4	26.4	27.1
	12H	18.9	20.0	19.5	20.5	21.2	25.4	26.4	26.0	27.0	27.7
4H	2H	18.1	19.3	18.6	19.8	20.5	19.9	21.1	20.4	21.6	22.3
	3H	19.5	20.5	20.1	21.1	21.8	22.5	23.5	23.1	24.1	24.7
	4H	20.0	20.9	20.5	21.5	22.1	23.8	24.7	24.4	25.3	26.0
	6H	20.2	21.0	20.8	21.7	22.3	25.1	25.9	25.7	26.5	27.2
	8H	20.3	21.0	20.9	21.7	22.3	25.8	26.6	26.4	27.2	27.9
	12H	20.3	21.0	20.9	21.6	22.3	26.5	27.2	27.1	27.9	28.6
8H	4H	20.6	21.4	21.2	22.0	22.7	23.9	24.7	24.5	25.3	26.0
	6H	21.0	21.7	21.7	22.3	23.0	25.4	26.1	26.1	26.7	27.4
	8H	21.2	21.7	21.8	22.4	23.1	26.2	26.8	26.9	27.5	28.2
	12H	21.2	21.7	21.9	22.4	23.2	27.1	27.6	27.8	28.3	29.1
12H	4H	20.8	21.5	21.4	22.1	22.8	23.9	24.6	24.5	25.3	26.0
	6H	21.3	21.9	22.0	22.5	23.3	25.4	26.0	26.1	26.6	27.4
	8H	21.5	22.0	22.2	22.7	23.5	26.3	26.8	26.9	27.5	28.2

Maximum UGR = 29.1

POLAR GRAPH



Maximum Candela = 1130.845 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.)