



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75S-4-L50-830-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] 02-11-2022

[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-L50-830-DIM-UNV

[LAMPCAT] HLM 80 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	4818
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	146
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	17351	14001	13237
55	14710	11737	11861
65	11551	10029	10775
75	7954	8198	9559
85	3554	6954	8380

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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	1625.624	1625.624	1625.624	1625.624	1625.624
5	1639.607	1619.001	1618.265	1614.586	1595.452
10	1611.642	1593.244	1594.716	1590.301	1572.639
15	1566.751	1549.090	1553.505	1549.090	1534.371
20	1491.689	1478.442	1491.689	1485.066	1469.611
25	1398.964	1393.813	1405.587	1404.851	1382.038
30	1296.673	1298.880	1312.127	1312.127	1284.162
35	1171.568	1189.230	1195.853	1198.061	1169.360
40	1035.425	1061.918	1056.030	1067.805	1053.087
45	902.225	925.774	924.302	945.644	941.964
50	766.082	787.423	804.349	840.409	847.768
55	626.259	652.752	690.283	744.005	768.290
60	494.531	526.911	590.935	657.167	688.811
65	367.955	419.468	499.683	575.481	607.861
70	252.417	320.121	406.222	488.644	526.911
75	160.428	225.188	322.328	404.750	443.018
80	87.573	150.126	253.153	328.216	363.539
85	27.965	91.989	192.072	259.040	292.156
90	0.000	59.609	146.446	208.998	231.812
95	0.000	54.457	136.879	191.336	204.583
100	0.000	51.514	127.312	174.411	186.185
105	0.000	47.098	119.217	161.164	172.939
110	0.000	44.155	111.122	150.861	162.636
115	0.000	40.475	101.556	141.295	152.333
120	0.000	34.588	91.253	128.048	141.295
125	0.000	28.700	82.422	117.010	128.784
130	0.000	23.549	71.383	104.499	112.594
135	0.000	21.341	57.401	90.517	98.612
140	0.000	17.662	44.890	75.799	83.894
145	0.000	13.982	34.588	58.873	66.968
150	0.000	10.303	26.493	44.890	51.514
155	0.000	8.095	21.341	32.380	37.531
160	0.000	0.000	15.454	23.549	26.493
165	0.000	0.000	10.303	16.926	18.398
170	0.000	0.000	0.000	10.303	11.039
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	590.14	N.A.	12.20
0-30	1234.42	N.A.	25.60
0-40	1976.07	N.A.	41.00
0-60	3320.49	N.A.	68.90
0-80	4146.59	N.A.	86.10
0-90	4343.85	N.A.	90.20
10-90	4190.25	N.A.	87.00
20-40	1385.93	N.A.	28.80
20-50	2105.27	N.A.	43.70
40-70	1835.82	N.A.	38.10
60-80	826.10	N.A.	17.10
70-80	334.70	N.A.	6.90
80-90	197.26	N.A.	4.10
90-110	242.72	N.A.	5.00
90-120	331.58	N.A.	6.90
90-130	397.04	N.A.	8.20
90-150	462.00	N.A.	9.60
90-180	474.18	N.A.	9.80
110-180	231.45	N.A.	4.80
0-180	4818.03	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	153.60
10-20	436.54
20-30	644.29
30-40	741.65
40-50	719.34
50-60	625.08
60-70	491.40
70-80	334.70
80-90	197.26
90-100	132.81
100-110	109.92
110-120	88.86
120-130	65.46
130-140	42.42
140-150	22.54
150-160	9.43
160-170	2.60
170-180	0.14

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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

X=2H	Y=2H	18.6	20.0	19.1	20.5	21.1	20.8	22.3	21.4	22.8	23.3
	3H	19.8	21.0	20.3	21.6	22.1	23.2	24.5	23.8	25.0	25.6
	4H	20.1	21.3	20.6	21.8	22.4	24.4	25.6	24.9	26.1	26.7
	6H	20.2	21.4	20.8	21.9	22.5	25.5	26.6	26.1	27.2	27.8
	8H	20.2	21.3	20.8	21.9	22.5	26.1	27.2	26.7	27.7	28.4
	12H	20.2	21.3	20.8	21.8	22.5	26.7	27.7	27.3	28.3	29.0

UGR Viewed Endwise

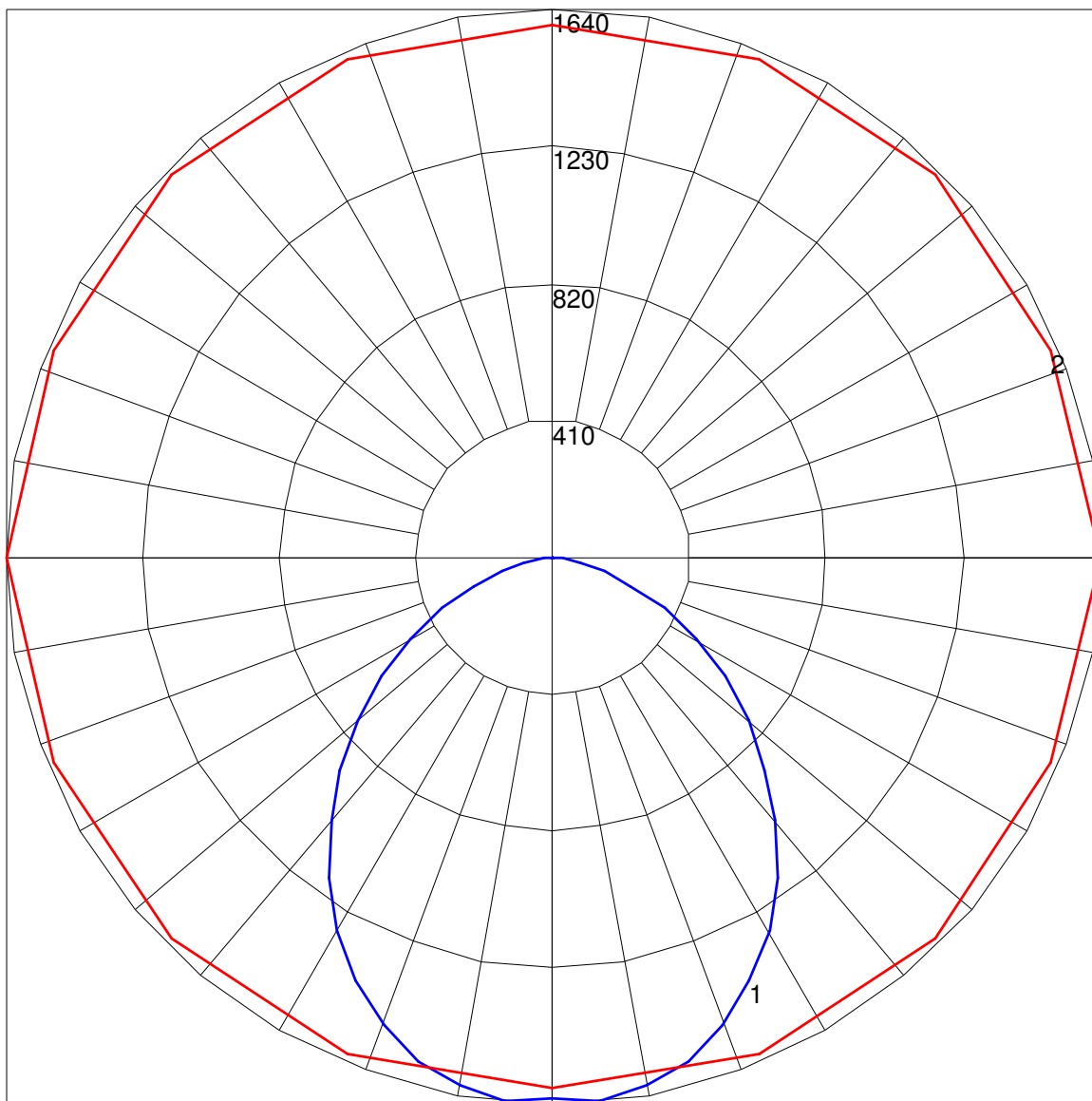
4H	2H	19.4	20.6	19.9	21.1	21.8	21.2	22.4	21.7	22.9	23.6
	3H	20.8	21.8	21.4	22.4	23.1	23.8	24.8	24.4	25.4	26.0
	4H	21.3	22.2	21.8	22.8	23.4	25.1	26.0	25.7	26.6	27.3
	6H	21.5	22.3	22.1	23.0	23.6	26.4	27.2	27.0	27.8	28.5
	8H	21.6	22.3	22.2	23.0	23.6	27.1	27.9	27.7	28.5	29.2
	12H	21.6	22.3	22.2	22.9	23.6	27.8	28.5	28.4	29.2	29.9

8H	4H	21.9	22.7	22.5	23.3	24.0	25.2	26.0	25.8	26.6	27.3
	6H	22.3	23.0	23.0	23.6	24.3	26.7	27.4	27.4	28.0	28.7
	8H	22.5	23.0	23.1	23.7	24.4	27.5	28.1	28.2	28.8	29.5
	12H	22.5	23.0	23.2	23.7	24.5	28.4	28.9	29.1	29.6	30.4

12H	4H	22.1	22.8	22.7	23.4	24.1	25.2	25.9	25.8	26.6	27.3
	6H	22.6	23.2	23.3	23.8	24.6	26.7	27.3	27.4	27.9	28.7
	8H	22.8	23.3	23.5	24.0	24.8	27.6	28.1	28.2	28.8	29.5

Maximum UGR = 30.4

POLAR GRAPH



Maximum Candela = 1639.607 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.)