



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75S-2-P34-8TW-POE_.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] 04-NOV-2019

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 2' SURFACE MOUNT STRIP LUMINAIRE

[MORE] WHITE REFLECTOR w/FROSTED ACRYLIC SQUARE LENS

[LUMCAT] 75S-2-P34-8TW-PoE

[_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	3242
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	142
Total Luminaire Watts	22.8
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)	1.88 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	22613	18417	17620
55	19006	15385	15789
65	14718	13085	14343
75	9848	10622	12725
85	3946	8900	11155

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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	1093.872	1093.872	1093.872	1093.872	1093.872
5	1103.280	1089.415	1088.920	1086.444	1073.569
10	1084.463	1072.083	1073.074	1070.103	1058.218
15	1054.257	1042.372	1045.343	1042.372	1032.468
20	1003.747	994.834	1003.747	999.291	988.892
25	941.354	937.887	945.810	945.315	929.964
30	872.522	874.008	882.921	882.921	864.104
35	788.340	800.225	804.681	806.167	786.855
40	696.730	714.557	710.596	718.519	708.615
45	607.101	622.947	621.957	636.317	633.841
50	515.491	529.852	541.241	565.505	570.457
55	421.405	439.232	464.487	500.636	516.977
60	332.767	354.555	397.636	442.203	463.497
65	247.594	282.257	336.233	387.237	409.026
70	169.850	215.407	273.344	328.805	354.555
75	107.951	151.528	216.893	272.354	298.104
80	58.927	101.018	170.345	220.854	244.623
85	18.817	61.899	129.244	174.306	196.590
90	0.000	40.110	98.543	140.634	155.984
95	0.000	36.644	92.105	128.749	137.662
100	0.000	34.663	85.668	117.360	125.283
105	0.000	31.692	80.221	108.446	116.369
110	0.000	29.711	74.773	101.514	109.437
115	0.000	27.235	68.336	95.076	102.504
120	0.000	23.274	61.403	86.163	95.076
125	0.000	19.312	55.461	78.735	86.658
130	0.000	15.846	48.033	70.317	75.764
135	0.000	14.360	38.625	60.908	66.355
140	0.000	11.885	30.207	51.004	56.451
145	0.000	9.409	23.274	39.615	45.062
150	0.000	6.933	17.827	30.207	34.663
155	0.000	5.447	14.360	21.788	25.255
160	0.000	0.000	10.399	15.846	17.827
165	0.000	0.000	6.933	11.389	12.380
170	0.000	0.000	0.000	6.933	7.428
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	397.10	N.A.	12.20
0-30	830.63	N.A.	25.60
0-40	1329.68	N.A.	41.00
0-60	2234.33	N.A.	68.90
0-80	2790.22	N.A.	86.10
0-90	2922.95	N.A.	90.20
10-90	2819.59	N.A.	87.00
20-40	932.58	N.A.	28.80
20-50	1416.62	N.A.	43.70
40-70	1235.31	N.A.	38.10
60-80	555.88	N.A.	17.10
70-80	225.22	N.A.	6.90
80-90	132.73	N.A.	4.10
90-110	163.33	N.A.	5.00
90-120	223.12	N.A.	6.90
90-130	267.16	N.A.	8.20
90-150	310.88	N.A.	9.60
90-180	319.07	N.A.	9.80
110-180	155.74	N.A.	4.80
0-180	3242.02	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	103.36
10-20	293.74
20-30	433.54
30-40	499.05
40-50	484.04
50-60	420.61
60-70	330.66
70-80	225.22
80-90	132.73
90-100	89.36
100-110	73.96
110-120	59.79
120-130	44.05
130-140	28.55
140-150	15.17
150-160	6.35
160-170	1.75
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	165	165	165	165	159	159	159	159	149	149	149	140	140	140	131	131	131	127
1	149	142	136	130	144	138	132	126	129	124	120	121	117	114	114	111	108	104
2	136	124	114	106	131	120	111	103	113	105	99	106	100	94	100	95	90	86
3	124	109	97	88	119	105	95	86	99	90	83	94	86	80	88	82	77	73
4	113	97	84	75	109	94	82	73	88	79	71	84	75	68	79	72	66	63
5	104	86	74	65	100	84	72	64	79	69	62	75	66	60	71	64	58	54
6	97	78	65	56	93	76	64	56	72	62	54	68	59	53	65	57	51	48
7	90	71	59	50	86	69	57	49	66	55	48	62	53	47	59	51	45	42
8	83	65	53	45	80	63	52	44	60	50	43	57	48	42	55	47	41	38
9	78	59	48	40	75	58	47	40	55	46	39	53	44	38	51	43	37	34
10	73	55	44	37	71	54	43	36	51	42	35	49	41	35	47	39	34	31

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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	19.2	20.6	19.7	21.1	21.7	20.5	21.9	21.0	22.4	23.0
	3H	20.6	21.9	21.1	22.4	23.0	22.9	24.2	23.4	24.7	25.3
	4H	21.0	22.2	21.5	22.8	23.4	24.0	25.2	24.5	25.7	26.3
	6H	21.3	22.4	21.8	23.0	23.6	25.1	26.2	25.7	26.8	27.4
	8H	21.3	22.4	21.9	23.0	23.6	25.6	26.7	26.2	27.3	27.9
	12H	21.4	22.4	21.9	23.0	23.6	26.2	27.3	26.8	27.8	28.5

UGR Viewed Endwise

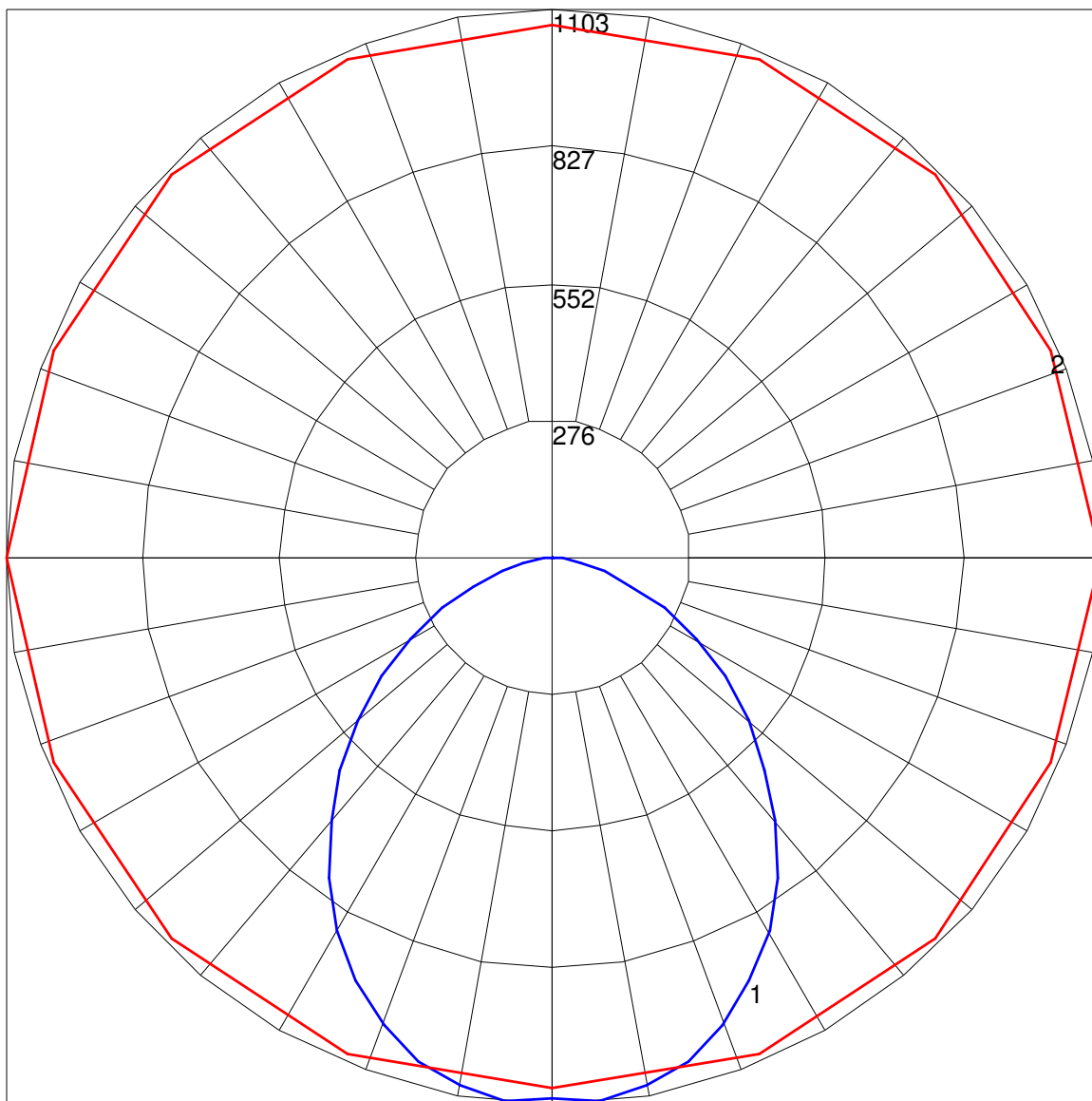
4H	2H	19.8	21.0	20.3	21.5	22.1	20.9	22.1	21.4	22.6	23.2
	3H	21.4	22.4	22.0	23.0	23.6	23.4	24.5	24.0	25.1	25.7
	4H	22.0	22.9	22.6	23.5	24.2	24.7	25.7	25.3	26.2	26.9
	6H	22.4	23.2	23.0	23.8	24.5	26.0	26.8	26.6	27.4	28.1
	8H	22.5	23.2	23.1	23.9	24.5	26.6	27.4	27.3	28.0	28.7
	12H	22.5	23.2	23.2	23.9	24.6	27.3	28.0	28.0	28.7	29.4

8H	4H	22.4	23.2	23.0	23.8	24.5	24.9	25.6	25.5	26.3	26.9
	6H	23.0	23.6	23.6	24.3	25.0	26.3	27.0	27.0	27.6	28.3
	8H	23.2	23.7	23.8	24.4	25.1	27.1	27.7	27.7	28.3	29.0
	12H	23.3	23.8	23.9	24.5	25.2	27.9	28.5	28.6	29.1	29.9

12H	4H	22.5	23.2	23.1	23.8	24.5	24.9	25.6	25.5	26.2	26.9
	6H	23.1	23.7	23.8	24.4	25.1	26.3	26.9	27.0	27.5	28.3
	8H	23.4	23.9	24.0	24.6	25.3	27.1	27.7	27.8	28.3	29.1

Maximum UGR = 29.9

POLAR GRAPH



Maximum Candela = 1103.28 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.)