



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75S-2-L25-8TW-DIM-UNV 4000K.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-L25-8TW-DIM-UNV 4000k

[_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	2362
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	119
Total Luminaire Watts	19.8
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	16475	13418	12837
55	13847	11209	11503
65	10723	9534	10449
75	7175	7739	9271
85	2875	6484	8127

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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	796.954	796.954	796.954	796.954	796.954
5	803.809	793.707	793.346	791.542	782.162
10	790.099	781.080	781.801	779.637	770.978
15	768.092	759.433	761.598	759.433	752.218
20	731.293	724.799	731.293	728.046	720.469
25	685.835	683.310	689.082	688.721	677.537
30	635.687	636.769	643.263	643.263	629.554
35	574.355	583.014	586.261	587.343	573.273
40	507.612	520.600	517.713	523.486	516.270
45	442.311	453.856	453.135	463.597	461.793
50	375.568	386.030	394.328	412.006	415.614
55	307.020	320.008	338.408	364.744	376.650
60	242.441	258.316	289.703	322.173	337.686
65	180.388	205.642	244.967	282.127	298.001
70	123.746	156.938	199.148	239.555	258.316
75	78.649	110.397	158.020	198.427	217.187
80	42.932	73.598	124.107	160.906	178.223
85	13.709	45.097	94.163	126.993	143.228
90	0.000	29.223	71.794	102.460	113.644
95	0.000	26.697	67.104	93.802	100.296
100	0.000	25.254	62.414	85.504	91.276
105	0.000	23.090	58.446	79.010	84.782
110	0.000	21.647	54.477	73.959	79.731
115	0.000	19.843	49.787	69.269	74.681
120	0.000	16.956	44.736	62.775	69.269
125	0.000	14.070	40.407	57.363	63.136
130	0.000	11.545	34.995	51.230	55.199
135	0.000	10.463	28.141	44.375	48.344
140	0.000	8.659	22.007	37.160	41.128
145	0.000	6.855	16.956	28.862	32.831
150	0.000	5.051	12.988	22.007	25.254
155	0.000	3.969	10.463	15.874	18.400
160	0.000	0.000	7.576	11.545	12.988
165	0.000	0.000	5.051	8.298	9.019
170	0.000	0.000	0.000	5.051	5.412
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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Zone	Lumens	%Lamp	%Fixt
0-20	289.31	N.A.	12.20
0-30	605.17	N.A.	25.60
0-40	968.76	N.A.	41.00
0-60	1627.85	N.A.	68.90
0-80	2032.85	N.A.	86.10
0-90	2129.55	N.A.	90.20
10-90	2054.25	N.A.	87.00
20-40	679.45	N.A.	28.80
20-50	1032.1	N.A.	43.70
40-70	900.00	N.A.	38.10
60-80	404.99	N.A.	17.10
70-80	164.09	N.A.	6.90
80-90	96.70	N.A.	4.10
90-110	118.99	N.A.	5.00
90-120	162.55	N.A.	6.90
90-130	194.64	N.A.	8.20
90-150	226.49	N.A.	9.60
90-180	232.46	N.A.	9.80
110-180	113.47	N.A.	4.80
0-180	2362.01	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	75.30
10-20	214.01
20-30	315.86
30-40	363.59
40-50	352.65
50-60	306.44
60-70	240.91
70-80	164.09
80-90	96.70
90-100	65.11
100-110	53.89
110-120	43.56
120-130	32.09
130-140	20.80
140-150	11.05
150-160	4.62
160-170	1.28
170-180	0.07

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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	72	72	72	72	70	70	70	70	66	66	66	61	61	61	58	58	58	56
1	66	62	60	57	63	60	58	56	57	55	53	53	51	50	50	49	47	46
2	60	54	50	46	57	53	49	45	49	46	43	46	44	41	44	42	40	38
3	54	48	43	39	52	46	42	38	44	40	36	41	38	35	39	36	34	32
4	50	42	37	33	48	41	36	32	39	35	31	37	33	30	35	32	29	27
5	46	38	32	28	44	37	32	28	35	30	27	33	29	26	31	28	25	24
6	42	34	29	25	41	33	28	24	32	27	24	30	26	23	28	25	22	21
7	39	31	26	22	38	30	25	22	29	24	21	27	23	21	26	23	20	19
8	37	28	23	20	35	28	23	19	26	22	19	25	21	18	24	21	18	17
9	34	26	21	18	33	25	21	17	24	20	17	23	19	17	22	19	16	15
10	32	24	19	16	31	24	19	16	23	18	16	22	18	15	21	17	15	14

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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	19.9	21.4	20.5	21.9	22.4
	3H	20.0	21.3	20.6	21.8	22.4	22.3	23.6	22.9	24.1	24.7
	4H	20.5	21.7	21.0	22.2	22.8	23.5	24.7	24.0	25.2	25.8
	6H	20.7	21.9	21.3	22.4	23.0	24.6	25.7	25.2	26.3	26.9
	8H	20.8	21.9	21.4	22.5	23.1	25.2	26.3	25.8	26.8	27.5
	12H	20.8	21.9	21.4	22.4	23.1	25.8	26.8	26.4	27.4	28.1

UGR Viewed Endwise

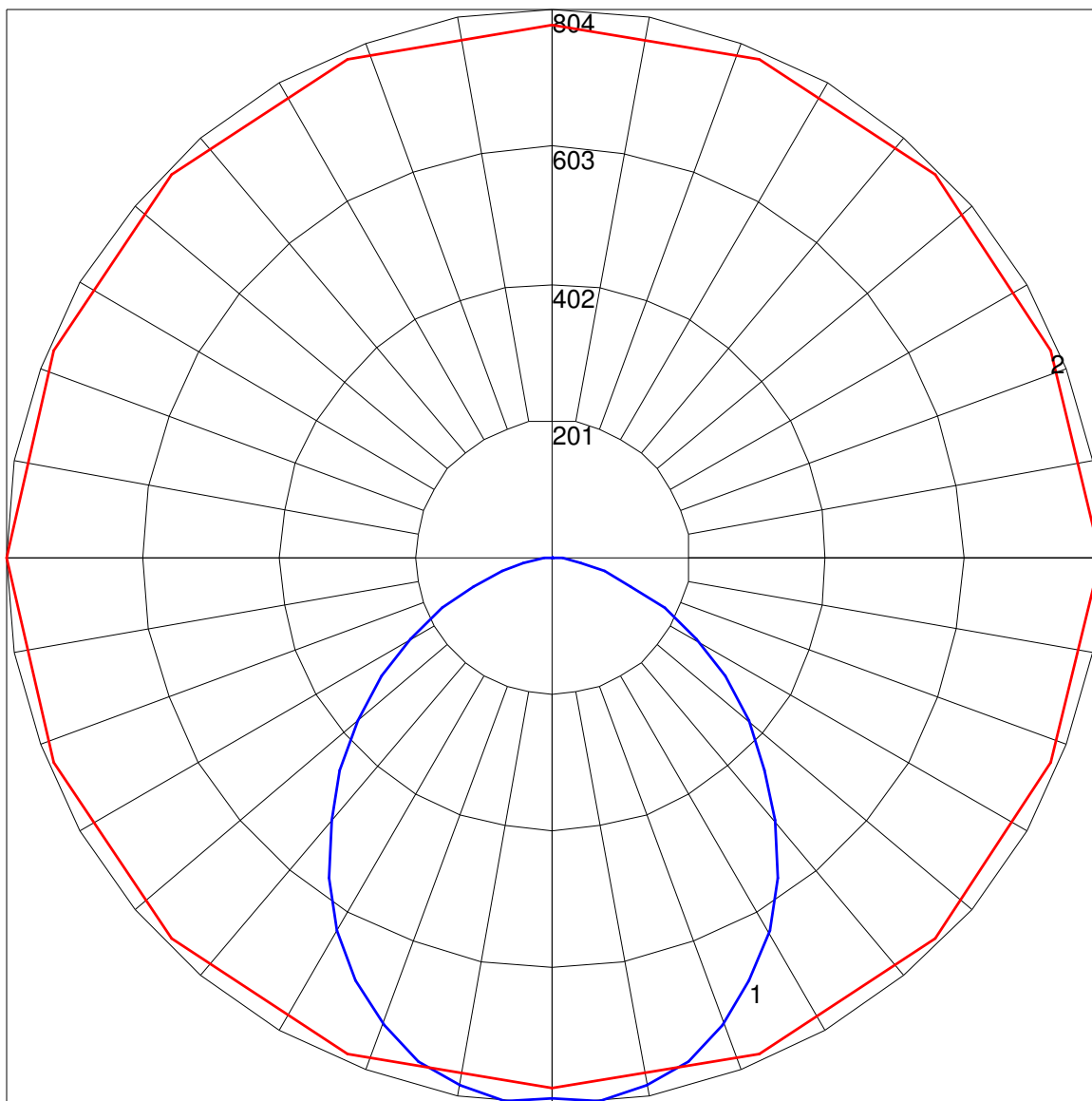
4H	2H	19.2	20.4	19.8	21.0	21.6	20.3	21.5	20.8	22.0	22.7
	3H	20.8	21.9	21.4	22.5	23.1	22.9	23.9	23.5	24.5	25.1
	4H	21.4	22.4	22.0	22.9	23.6	24.2	25.1	24.8	25.7	26.4
	6H	21.8	22.7	22.4	23.3	23.9	25.5	26.3	26.1	26.9	27.6
	8H	21.9	22.7	22.6	23.3	24.0	26.2	27.0	26.8	27.6	28.3
	12H	22.0	22.7	22.6	23.4	24.0	26.9	27.6	27.6	28.3	29.0

8H	4H	21.9	22.6	22.5	23.2	23.9	24.3	25.1	24.9	25.7	26.4
	6H	22.4	23.1	23.1	23.7	24.4	25.8	26.5	26.5	27.1	27.8
	8H	22.6	23.2	23.3	23.9	24.6	26.6	27.2	27.3	27.9	28.6
	12H	22.8	23.3	23.4	23.9	24.7	27.5	28.0	28.2	28.7	29.5

12H	4H	21.9	22.6	22.6	23.3	24.0	24.3	25.0	24.9	25.7	26.4
	6H	22.6	23.2	23.3	23.8	24.6	25.8	26.4	26.5	27.0	27.8
	8H	22.9	23.4	23.5	24.0	24.8	26.7	27.2	27.3	27.9	28.6

Maximum UGR = 29.5

POLAR GRAPH



Maximum Candela = 803.809 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.)