



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75S-2-P23-8TW-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-P23-8TW-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	2295
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	151
Total Luminaire Watts	15.2
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	16008	13038	12473
55	13454	10891	11177
65	10419	9263	10153
75	6971	7519	9008
85	2794	6301	7896

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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	774.348	774.348	774.348	774.348	774.348
5	781.008	771.193	770.842	769.090	759.975
10	767.687	758.924	759.625	757.522	749.109
15	746.304	737.891	739.995	737.891	730.880
20	710.549	704.239	710.549	707.394	700.033
25	666.381	663.927	669.536	669.185	658.318
30	617.655	618.707	625.017	625.017	611.696
35	558.063	566.476	569.631	570.683	557.012
40	493.213	505.832	503.028	508.637	501.626
45	429.765	440.982	440.281	450.447	448.694
50	364.914	375.080	383.143	400.319	403.825
55	298.311	310.931	328.809	354.398	365.966
60	235.564	250.988	281.485	313.034	328.107
65	175.271	199.809	238.018	274.124	289.548
70	120.236	152.486	193.499	232.760	250.988
75	76.418	107.266	153.537	192.798	211.026
80	41.715	71.511	120.587	156.342	173.168
85	13.321	43.818	91.492	123.391	139.165
90	0.000	28.394	69.758	99.554	110.421
95	0.000	25.940	65.201	91.141	97.451
100	0.000	24.538	60.644	83.078	88.687
105	0.000	22.435	56.788	76.769	82.377
110	0.000	21.033	52.932	71.861	77.470
115	0.000	19.280	48.375	67.304	72.562
120	0.000	16.475	43.467	60.994	67.304
125	0.000	13.671	39.261	55.736	61.345
130	0.000	11.217	34.003	49.777	53.633
135	0.000	10.166	27.342	43.117	46.973
140	0.000	8.413	21.383	36.106	39.962
145	0.000	6.660	16.475	28.043	31.899
150	0.000	4.908	12.620	21.383	24.538
155	0.000	3.856	10.166	15.424	17.878
160	0.000	0.000	7.361	11.217	12.620
165	0.000	0.000	4.908	8.062	8.764
170	0.000	0.000	0.000	4.908	5.258
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	281.10	N.A.	12.20
0-30	588.00	N.A.	25.60
0-40	941.28	N.A.	41.00
0-60	1581.68	N.A.	68.90
0-80	1975.18	N.A.	86.10
0-90	2069.14	N.A.	90.20
10-90	1995.98	N.A.	87.00
20-40	660.17	N.A.	28.80
20-50	1002.82	N.A.	43.70
40-70	874.47	N.A.	38.10
60-80	393.51	N.A.	17.10
70-80	159.43	N.A.	6.90
80-90	93.96	N.A.	4.10
90-110	115.62	N.A.	5.00
90-120	157.94	N.A.	6.90
90-130	189.12	N.A.	8.20
90-150	220.07	N.A.	9.60
90-180	225.87	N.A.	9.80
110-180	110.25	N.A.	4.80
0-180	2295.01	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	73.16
10-20	207.94
20-30	306.90
30-40	353.27
40-50	342.65
50-60	297.75
60-70	234.07
70-80	159.43
80-90	93.96
90-100	63.26
100-110	52.36
110-120	42.33
120-130	31.18
130-140	20.21
140-150	10.74
150-160	4.49
160-170	1.24
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	83	83	83	83	81	81	81	81	75	75	75	71	71	71	66	66	66	64
1	75	72	69	66	73	69	67	64	65	63	61	61	59	57	57	56	55	53
2	69	63	58	53	66	61	56	52	57	53	50	53	50	48	50	48	46	44
3	63	55	49	44	60	53	48	44	50	46	42	47	43	40	45	41	39	37
4	57	49	43	38	55	47	42	37	45	40	36	42	38	35	40	36	33	32
5	53	44	37	33	51	42	37	32	40	35	31	38	34	30	36	32	29	27
6	49	39	33	29	47	38	32	28	36	31	27	34	30	27	33	29	26	24
7	45	36	30	25	44	35	29	25	33	28	24	31	27	24	30	26	23	21
8	42	33	27	23	41	32	26	22	30	25	22	29	24	21	28	24	21	19
9	39	30	24	20	38	29	24	20	28	23	20	27	22	19	26	22	19	17
10	37	28	22	18	36	27	22	18	26	21	18	25	20	17	24	20	17	16

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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	18.1	19.5	18.6	20.0	20.6	19.4	20.9	20.0	21.4	21.9
	3H	19.5	20.8	20.0	21.3	21.9	21.8	23.1	22.4	23.6	24.2
	4H	20.0	21.2	20.5	21.7	22.3	23.0	24.2	23.5	24.7	25.3
	6H	20.2	21.4	20.8	21.9	22.5	24.1	25.2	24.7	25.8	26.4
	8H	20.3	21.4	20.9	22.0	22.6	24.7	25.8	25.3	26.3	27.0
	12H	20.3	21.4	20.9	21.9	22.6	25.3	26.3	25.9	26.9	27.6

UGR Viewed Endwise

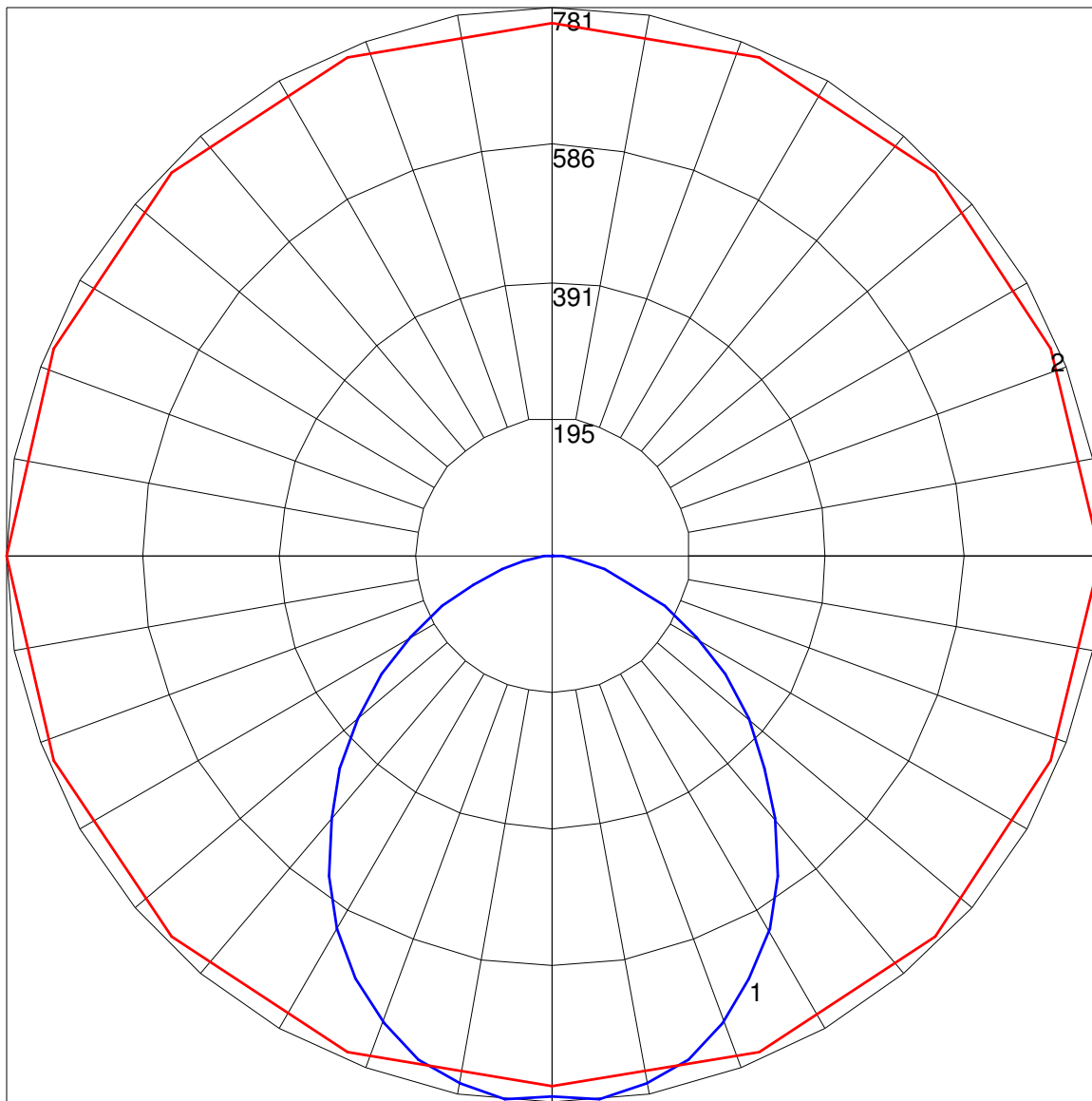
4H	2H	18.7	19.9	19.3	20.5	21.1	19.8	21.0	20.3	21.5	22.2
	3H	20.3	21.4	20.9	22.0	22.6	22.4	23.4	23.0	24.0	24.6
	4H	20.9	21.9	21.5	22.4	23.1	23.7	24.6	24.3	25.2	25.9
	6H	21.3	22.2	21.9	22.8	23.4	25.0	25.8	25.6	26.4	27.1
	8H	21.4	22.2	22.0	22.8	23.5	25.7	26.5	26.3	27.1	27.8
	12H	21.5	22.2	22.1	22.8	23.5	26.4	27.1	27.0	27.8	28.5

8H	4H	21.3	22.1	22.0	22.7	23.4	23.8	24.6	24.4	25.2	25.9
	6H	21.9	22.6	22.6	23.2	23.9	25.3	26.0	26.0	26.6	27.3
	8H	22.1	22.7	22.8	23.4	24.1	26.1	26.7	26.8	27.4	28.1
	12H	22.3	22.8	22.9	23.4	24.2	27.0	27.5	27.7	28.2	29.0

12H	4H	21.4	22.1	22.1	22.8	23.5	23.8	24.5	24.4	25.2	25.9
	6H	22.1	22.7	22.8	23.3	24.1	25.3	25.9	26.0	26.5	27.3
	8H	22.4	22.9	23.0	23.5	24.3	26.2	26.7	26.8	27.4	28.1

Maximum UGR = 29.0

POLAR GRAPH



Maximum Candela = 781.008 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.)