



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75S-2-L30-8FS-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] 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-L30-8FS-DIM-UNV

[\_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	2893
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	145
Total Luminaire Watts	20
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	20179	16435	15723
55	16960	13729	14089
65	13134	11677	12799
75	8788	9479	11355
85	3521	7942	9954

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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	976.117	976.117	976.117	976.117	976.117
5	984.512	972.140	971.698	969.488	957.999
10	967.721	956.674	957.558	954.906	944.301
15	940.766	930.161	932.812	930.161	921.323
20	895.694	887.740	895.694	891.717	882.438
25	840.017	836.924	843.994	843.552	829.854
30	778.596	779.921	787.875	787.875	771.084
35	703.476	714.081	718.058	719.383	702.150
40	621.728	637.635	634.100	641.170	632.333
45	541.747	555.887	555.003	567.818	565.609
50	459.999	472.813	482.977	504.629	509.048
55	376.041	391.949	414.485	446.742	461.324
60	296.944	316.387	354.831	394.600	413.601
65	220.941	251.873	300.038	345.551	364.994
70	151.565	192.219	243.919	293.409	316.387
75	96.330	135.216	193.544	243.035	266.013
80	52.584	90.144	152.007	197.079	218.290
85	16.792	55.235	115.331	155.542	175.427
90	0.000	35.792	87.934	125.494	139.193
95	0.000	32.699	82.190	114.889	122.843
100	0.000	30.932	76.446	104.726	111.796
105	0.000	28.280	71.585	96.772	103.842
110	0.000	26.513	66.724	90.586	97.656
115	0.000	24.303	60.980	84.841	91.470
120	0.000	20.768	54.793	76.887	84.841
125	0.000	17.233	49.491	70.259	77.329
130	0.000	14.140	42.863	62.747	67.608
135	0.000	12.815	34.467	54.351	59.212
140	0.000	10.605	26.955	45.514	50.375
145	0.000	8.396	20.768	35.351	40.211
150	0.000	6.186	15.908	26.955	30.932
155	0.000	4.861	12.815	19.443	22.536
160	0.000	0.000	9.280	14.140	15.908
165	0.000	0.000	6.186	10.163	11.047
170	0.000	0.000	0.000	6.186	6.628
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	354.35	N.A.	12.20
0-30	741.22	N.A.	25.60
0-40	1186.54	N.A.	41.00
0-60	1993.81	N.A.	68.90
0-80	2489.85	N.A.	86.10
0-90	2608.29	N.A.	90.20
10-90	2516.06	N.A.	87.00
20-40	832.19	N.A.	28.80
20-50	1264.12	N.A.	43.70
40-70	1102.33	N.A.	38.10
60-80	496.04	N.A.	17.10
70-80	200.98	N.A.	6.90
80-90	118.44	N.A.	4.10
90-110	145.74	N.A.	5.00
90-120	199.10	N.A.	6.90
90-130	238.40	N.A.	8.20
90-150	277.41	N.A.	9.60
90-180	284.72	N.A.	9.80
110-180	138.98	N.A.	4.80
0-180	2893.02	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	92.23
10-20	262.12
20-30	386.87
30-40	445.33
40-50	431.93
50-60	375.33
60-70	295.07
70-80	200.98
80-90	118.44
90-100	79.74
100-110	66.00
110-120	53.35
120-130	39.31
130-140	25.47
140-150	13.54
150-160	5.66
160-170	1.56
170-180	0.08

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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	226	226	226	226	219	219	219	219	205	205	205	192	192	192	180	180	180	175
1	205	195	186	178	198	189	181	174	177	171	165	166	161	156	156	152	148	143
2	186	170	156	145	179	165	152	142	155	144	136	145	137	130	137	130	124	119
3	170	149	133	121	164	145	130	118	136	124	114	129	118	110	121	113	105	100
4	156	133	116	103	150	129	113	101	121	108	97	115	103	94	108	99	91	86
5	143	119	101	89	138	115	99	87	109	95	85	103	91	82	98	88	79	75
6	133	107	90	78	128	104	88	76	99	85	74	94	81	72	89	78	70	66
7	123	97	80	69	119	95	79	68	90	76	66	86	73	64	81	71	62	58
8	115	89	72	61	111	87	71	61	82	69	59	79	66	58	75	64	56	52
9	107	82	66	55	103	80	65	55	76	63	53	73	61	52	69	59	51	47
10	101	75	60	50	97	74	59	50	70	57	49	67	56	47	65	54	46	43

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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	17.7	19.1	18.2	19.6	20.2	19.0	20.4	19.5	20.9	21.5
	3H	19.1	20.4	19.6	20.9	21.5	21.4	22.7	21.9	23.2	23.8
	4H	19.5	20.7	20.1	21.3	21.9	22.5	23.7	23.0	24.2	24.9
	6H	19.8	20.9	20.3	21.5	22.1	23.6	24.7	24.2	25.3	25.9
	8H	19.8	20.9	20.4	21.5	22.1	24.1	25.2	24.7	25.8	26.4
	12H	19.9	20.9	20.5	21.5	22.1	24.7	25.8	25.3	26.3	27.0

UGR Viewed Endwise

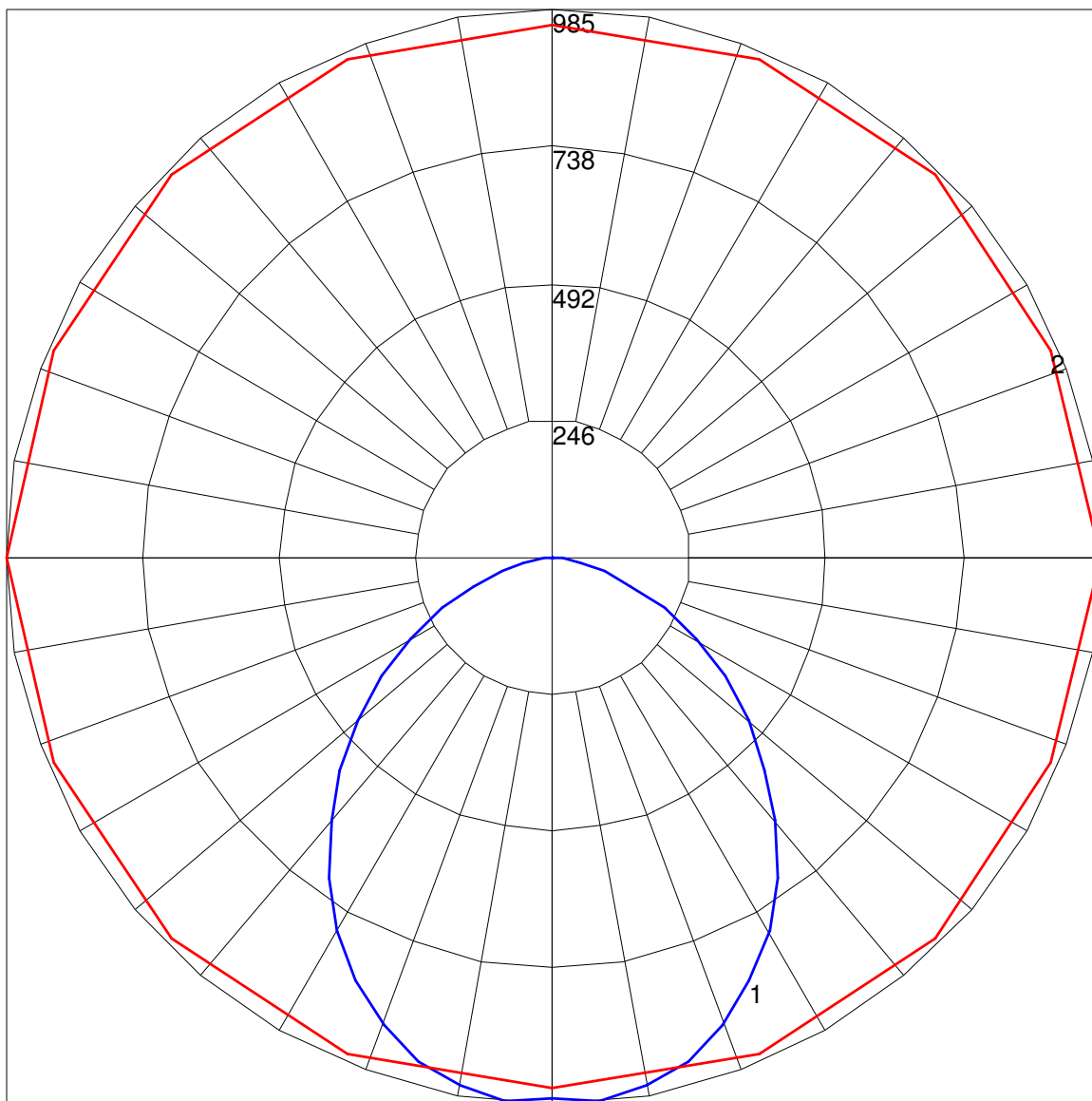
4H	2H	18.3	19.5	18.8	20.0	20.7	19.4	20.6	19.9	21.1	21.7
	3H	19.9	20.9	20.5	21.5	22.2	22.0	23.0	22.5	23.6	24.2
	4H	20.5	21.4	21.1	22.0	22.7	23.2	24.2	23.8	24.7	25.4
	6H	20.9	21.7	21.5	22.3	23.0	24.5	25.3	25.1	25.9	26.6
	8H	21.0	21.8	21.6	22.4	23.0	25.1	25.9	25.8	26.5	27.2
	12H	21.0	21.7	21.7	22.4	23.1	25.8	26.5	26.5	27.2	27.9

8H	4H	20.9	21.7	21.5	22.3	23.0	23.4	24.1	24.0	24.8	25.4
	6H	21.5	22.1	22.1	22.8	23.5	24.8	25.5	25.5	26.1	26.8
	8H	21.7	22.2	22.3	22.9	23.6	25.6	26.2	26.2	26.8	27.5
	12H	21.8	22.3	22.4	23.0	23.7	26.4	27.0	27.1	27.6	28.4

12H	4H	21.0	21.7	21.6	22.3	23.0	23.4	24.1	24.0	24.7	25.4
	6H	21.6	22.2	22.3	22.9	23.6	24.8	25.4	25.5	26.0	26.8
	8H	21.9	22.4	22.5	23.1	23.8	25.6	26.2	26.3	26.8	27.6

Maximum UGR = 28.4

POLAR GRAPH



Maximum Candela = 984.512 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.)