



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75S-8-L130-840-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] 06-FEB-2020

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 8' SURFACE SUSPENDED LED STRIP LUMINAIRE

[MORE] WHITE REFLECTOR w/FROSTED ACRYLIC SQUARE LENS

[LUMCAT] 75S-8-L130-840-DIM-UNV

[LAMPCAT] HLM 80 CRI 4000K 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	12653
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	148
Total Luminaire Watts	85.5
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)	7.44 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	23036	18498	17383
55	19620	15535	15576
65	15523	13307	14149
75	10863	10917	12553
85	5195	9323	11004

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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	4269.204	4269.204	4269.204	4269.204	4269.204
5	4305.924	4251.810	4249.878	4240.214	4189.966
10	4232.484	4184.168	4188.033	4176.437	4130.054
15	4114.593	4068.209	4079.805	4068.209	4029.557
20	3917.463	3882.676	3917.463	3900.070	3859.484
25	3673.951	3660.422	3691.344	3689.412	3629.500
30	3405.313	3411.111	3445.899	3445.899	3372.459
35	3076.765	3123.148	3140.542	3146.340	3070.967
40	2719.226	2788.801	2773.340	2804.262	2765.609
45	2369.418	2431.262	2427.397	2483.444	2473.781
50	2011.879	2067.926	2112.377	2207.076	2226.402
55	1644.678	1714.253	1812.817	1953.900	2017.677
60	1298.735	1383.771	1551.911	1725.848	1808.952
65	966.321	1101.605	1312.263	1511.325	1596.361
70	662.896	840.699	1066.818	1283.274	1383.771
75	421.316	591.388	846.497	1062.953	1163.450
80	229.984	394.259	664.829	861.958	954.725
85	73.440	241.580	504.419	680.290	767.258
90	0.000	156.544	384.596	548.870	608.782
95	0.000	143.015	359.471	502.487	537.274
100	0.000	135.285	334.347	458.036	488.958
105	0.000	123.689	313.088	423.248	454.171
110	0.000	115.958	291.829	396.191	427.114
115	0.000	106.295	266.704	371.067	400.057
120	0.000	90.834	239.647	336.280	371.067
125	0.000	75.373	216.456	307.290	338.212
130	0.000	61.845	187.466	274.435	295.694
135	0.000	56.047	150.746	237.715	258.974
140	0.000	46.383	117.891	199.062	220.321
145	0.000	36.720	90.834	154.611	175.870
150	0.000	27.057	69.575	117.891	135.285
155	0.000	21.259	56.047	85.036	98.565
160	0.000	0.000	40.585	61.845	69.575
165	0.000	0.000	27.057	44.451	48.316
170	0.000	0.000	0.000	27.057	28.990
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	1549.81	N.A.	12.20
0-30	3241.83	N.A.	25.60
0-40	5189.54	N.A.	41.00
0-60	8720.25	N.A.	68.90
0-80	10889.76	N.A.	86.10
0-90	11407.8	N.A.	90.20
10-90	11004.42	N.A.	87.00
20-40	3639.73	N.A.	28.80
20-50	5528.85	N.A.	43.70
40-70	4821.22	N.A.	38.10
60-80	2169.51	N.A.	17.10
70-80	879.00	N.A.	6.90
80-90	518.04	N.A.	4.10
90-110	637.43	N.A.	5.00
90-120	870.78	N.A.	6.90
90-130	1042.69	N.A.	8.20
90-150	1213.3	N.A.	9.60
90-180	1245.28	N.A.	9.80
110-180	607.85	N.A.	4.80
0-180	12653.07	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	403.38
10-20	1146.43
20-30	1692.02
30-40	1947.71
40-50	1889.12
50-60	1641.59
60-70	1290.51
70-80	879.00
80-90	518.04
90-100	348.77
100-110	288.66
110-120	233.35
120-130	171.91
130-140	111.41
140-150	59.20
150-160	24.77
160-170	6.83
170-180	0.37

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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**

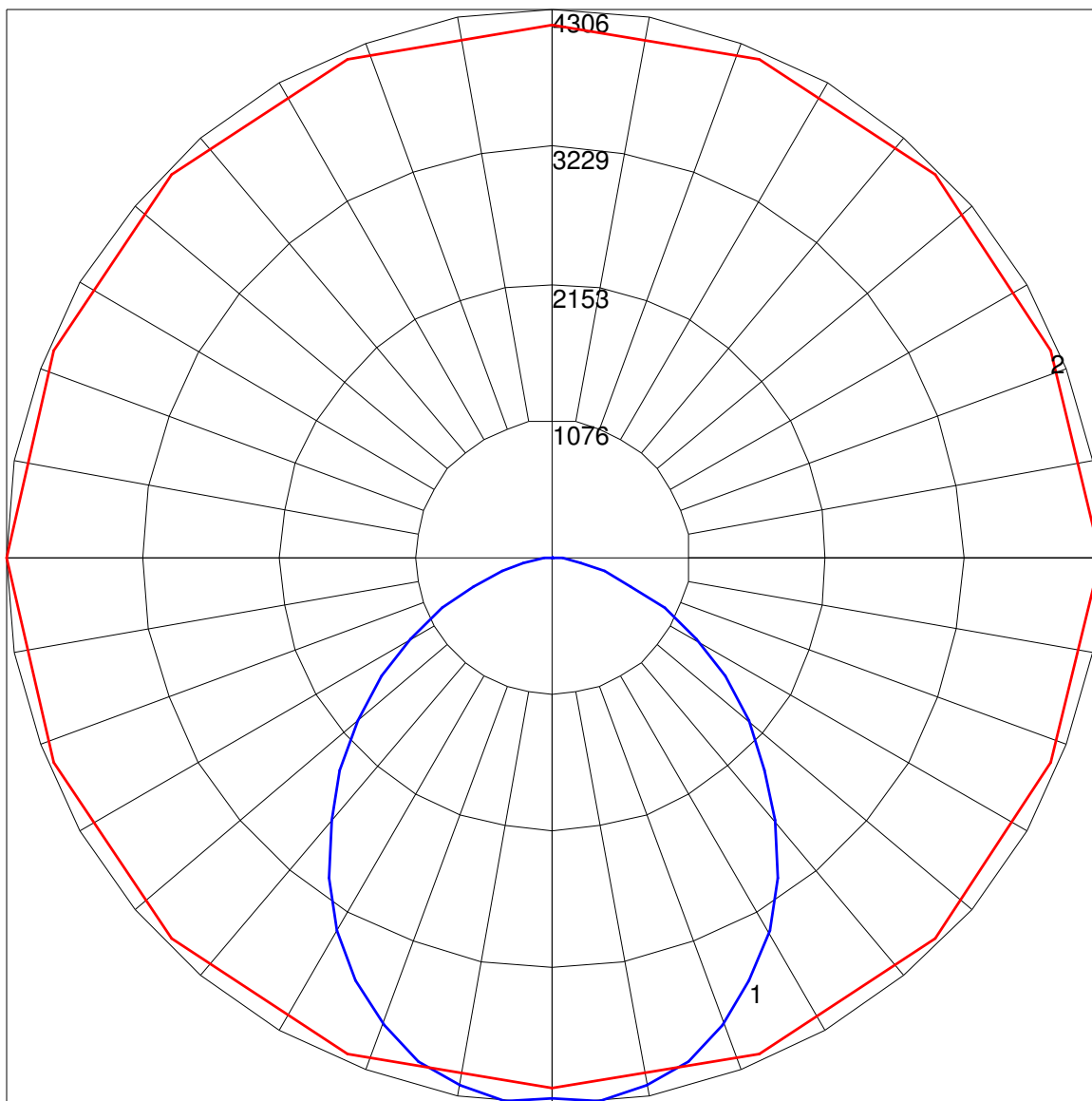
Reflectances

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					UGR Viewed Endwise				
X=2H	Y=2H	20.4	21.9	21.0	22.4	22.9	21.8	23.2	22.3	23.7	24.3
	3H	21.9	23.1	22.4	23.7	24.3	24.2	25.5	24.7	26.0	26.6
	4H	22.3	23.5	22.9	24.1	24.7	25.3	26.5	25.9	27.1	27.7
	6H	22.6	23.7	23.2	24.3	24.9	26.5	27.6	27.1	28.2	28.8
	8H	22.7	23.8	23.3	24.3	25.0	27.1	28.2	27.7	28.7	29.4
	12H	22.7	23.8	23.3	24.3	25.0	27.7	28.8	28.3	29.3	30.0
4H	2H	21.0	22.3	21.6	22.8	23.4	22.1	23.3	22.7	23.9	24.5
	3H	22.7	23.7	23.3	24.3	24.9	24.7	25.8	25.3	26.4	27.0
	4H	23.3	24.2	23.9	24.8	25.5	26.1	27.0	26.6	27.6	28.2
	6H	23.7	24.5	24.3	25.1	25.8	27.4	28.2	28.0	28.8	29.5
	8H	23.8	24.6	24.4	25.2	25.9	28.1	28.9	28.7	29.5	30.2
	12H	23.9	24.6	24.5	25.2	25.9	28.9	29.6	29.5	30.2	30.9
8H	4H	23.7	24.5	24.3	25.1	25.8	26.2	27.0	26.8	27.6	28.3
	6H	24.3	24.9	24.9	25.6	26.3	27.7	28.3	28.3	29.0	29.7
	8H	24.5	25.1	25.1	25.7	26.4	28.5	29.1	29.2	29.8	30.5
	12H	24.6	25.2	25.3	25.8	26.6	29.4	30.0	30.1	30.6	31.4
12H	4H	23.8	24.5	24.4	25.1	25.8	26.2	26.9	26.8	27.5	28.2
	6H	24.5	25.0	25.1	25.7	26.4	27.7	28.3	28.4	28.9	29.7
	8H	24.7	25.3	25.4	25.9	26.7	28.6	29.1	29.2	29.8	30.5

Maximum UGR = 31.4

POLAR GRAPH



Maximum Candela = 4305.924 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.)