



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75S-4-L65-835-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] 05-NOV-2019

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 4' SURFACE MOUNT STRIP LUMINAIRE

[MORE] WHITE REFLECTOR w/FROSTED ACRYLIC SQUARE LENS

[LUMCAT] 75S-4-L65-835-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	5934
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	140
Total Luminaire Watts	42.3
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)	3.72 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	21370	17244	16303
55	18117	14455	14609
65	14226	12352	13271
75	9797	10097	11774
85	4377	8565	10321

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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	2002.170	2002.170	2002.170	2002.170	2002.170
5	2019.391	1994.013	1993.106	1988.574	1965.009
10	1984.949	1962.290	1964.102	1958.664	1936.911
15	1929.660	1907.907	1913.346	1907.907	1889.780
20	1837.211	1820.896	1837.211	1829.053	1810.020
25	1723.008	1716.664	1731.165	1730.259	1702.162
30	1597.023	1599.742	1616.057	1616.057	1581.614
35	1442.940	1464.693	1472.850	1475.569	1440.221
40	1275.262	1307.891	1300.640	1315.142	1297.015
45	1111.209	1140.213	1138.400	1164.685	1160.153
50	943.530	969.815	990.662	1035.074	1044.137
55	771.320	803.950	850.174	916.339	946.250
60	609.080	648.960	727.815	809.388	848.362
65	453.185	516.631	615.425	708.781	748.661
70	310.885	394.271	500.316	601.829	648.960
75	197.589	277.349	396.990	498.503	545.634
80	107.858	184.899	311.791	404.241	447.746
85	34.442	113.296	236.562	319.042	359.829
90	0.000	73.416	180.367	257.409	285.506
95	0.000	67.071	168.585	235.656	251.971
100	0.000	63.446	156.802	214.810	229.311
105	0.000	58.008	146.832	198.495	212.997
110	0.000	54.382	136.862	185.806	200.308
115	0.000	49.850	125.079	174.023	187.618
120	0.000	42.599	112.390	157.708	174.023
125	0.000	35.348	101.513	144.113	158.615
130	0.000	29.004	87.918	128.704	138.675
135	0.000	26.285	70.697	111.483	121.453
140	0.000	21.753	55.289	93.356	103.326
145	0.000	17.221	42.599	72.510	82.480
150	0.000	12.689	32.629	55.289	63.446
155	0.000	9.970	26.285	39.880	46.225
160	0.000	0.000	19.034	29.004	32.629
165	0.000	0.000	12.689	20.846	22.659
170	0.000	0.000	0.000	12.689	13.596
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	726.83	N.A.	12.20
0-30	1520.35	N.A.	25.60
0-40	2433.79	N.A.	41.00
0-60	4089.62	N.A.	68.90
0-80	5107.08	N.A.	86.10
0-90	5350.03	N.A.	90.20
10-90	5160.85	N.A.	87.00
20-40	1706.96	N.A.	28.80
20-50	2592.92	N.A.	43.70
40-70	2261.06	N.A.	38.10
60-80	1017.46	N.A.	17.10
70-80	412.23	N.A.	6.90
80-90	242.95	N.A.	4.10
90-110	298.94	N.A.	5.00
90-120	408.38	N.A.	6.90
90-130	489.00	N.A.	8.20
90-150	569.01	N.A.	9.60
90-180	584.01	N.A.	9.80
110-180	285.07	N.A.	4.80
0-180	5934.03	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	189.18
10-20	537.65
20-30	793.52
30-40	913.43
40-50	885.96
50-60	769.87
60-70	605.23
70-80	412.23
80-90	242.95
90-100	163.57
100-110	135.38
110-120	109.44
120-130	80.62
130-140	52.25
140-150	27.76
150-160	11.62
160-170	3.20
170-180	0.17

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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	245	245	245	245	237	237	237	237	222	222	222	208	208	208	195	195	195	189
1	222	211	201	193	214	204	195	188	191	184	178	180	174	169	169	164	160	154
2	201	184	169	157	194	178	165	153	167	156	147	157	148	140	148	141	134	128
3	184	161	144	130	177	157	141	128	147	134	123	139	128	118	131	122	114	108
4	168	143	125	111	162	139	122	109	131	117	105	124	112	102	117	107	98	93
5	155	128	110	96	149	125	107	94	118	103	91	112	99	89	106	95	86	81
6	143	116	97	84	138	113	95	83	107	92	80	101	88	78	96	85	76	71
7	133	105	87	74	128	102	85	73	97	82	71	92	79	69	88	76	67	63
8	124	96	78	66	119	94	77	65	89	74	64	85	72	62	81	69	61	56
9	116	88	71	60	112	86	70	59	82	68	58	78	66	56	75	63	55	51
10	109	81	65	54	105	80	64	54	76	62	52	73	60	51	70	58	50	46

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**UGR TABLE - CORRECTED**

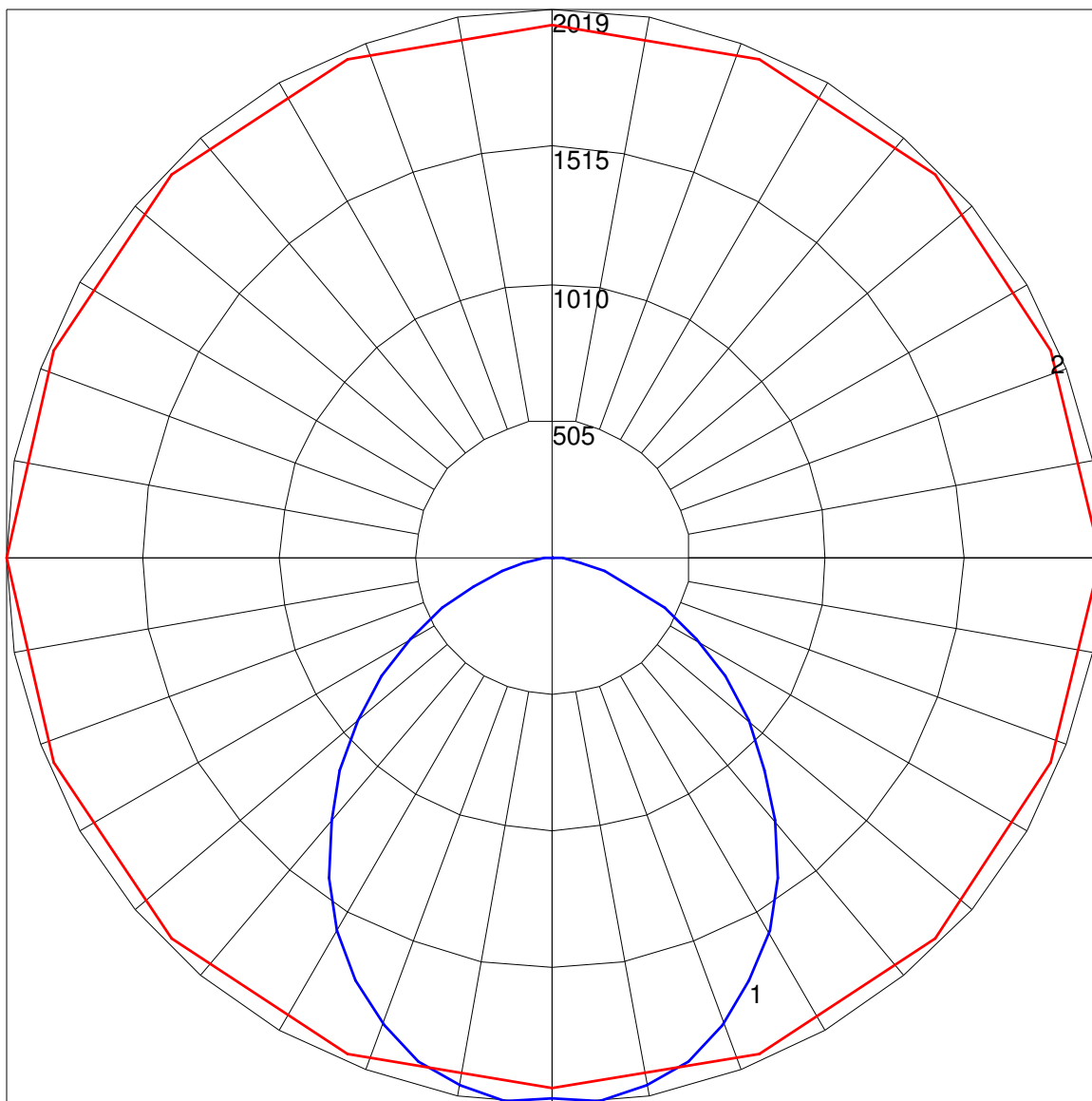
Reflectances

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	17.6	19.0	18.1	19.5	20.1	18.9	20.4	19.5	20.9	21.4
	3H	19.0	20.3	19.5	20.8	21.4	21.3	22.6	21.9	23.1	23.7
	4H	19.5	20.7	20.0	21.2	21.8	22.5	23.7	23.0	24.2	24.8
	6H	19.7	20.9	20.3	21.4	22.0	23.6	24.7	24.2	25.3	25.9
	8H	19.8	20.9	20.4	21.5	22.1	24.2	25.3	24.8	25.8	26.5
	12H	19.8	20.9	20.4	21.4	22.1	24.8	25.8	25.4	26.4	27.1
4H	2H	18.2	19.4	18.8	20.0	20.6	19.3	20.5	19.8	21.0	21.7
	3H	19.8	20.9	20.4	21.5	22.1	21.9	22.9	22.5	23.5	24.1
	4H	20.4	21.4	21.0	21.9	22.6	23.2	24.1	23.8	24.7	25.4
	6H	20.8	21.7	21.4	22.3	22.9	24.5	25.3	25.1	25.9	26.6
	8H	20.9	21.7	21.5	22.3	23.0	25.2	26.0	25.8	26.6	27.3
	12H	21.0	21.7	21.6	22.3	23.0	25.9	26.6	26.5	27.3	28.0
8H	4H	20.8	21.6	21.5	22.2	22.9	23.3	24.1	23.9	24.7	25.4
	6H	21.4	22.1	22.1	22.7	23.4	24.8	25.5	25.5	26.1	26.8
	8H	21.6	22.2	22.3	22.9	23.6	25.6	26.2	26.3	26.9	27.6
	12H	21.8	22.3	22.4	22.9	23.7	26.5	27.0	27.2	27.7	28.5
12H	4H	20.9	21.6	21.6	22.3	23.0	23.3	24.0	23.9	24.7	25.4
	6H	21.6	22.2	22.3	22.8	23.6	24.8	25.4	25.5	26.0	26.8
	8H	21.9	22.4	22.5	23.0	23.8	25.7	26.2	26.3	26.9	27.6

Maximum UGR = 28.5

POLAR GRAPH



Maximum Candela = 2019.391 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.)