



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75S-4-L30-840-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] 01-27-2023

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 4' LED STRIP LUMINAIRE

[MORE] WHITE REFLECTOR w/FROSTED ACRYLIC SQUARE LENS

[LUMCAT] 75S-4-L30-840-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	3003
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	152
Total Luminaire Watts	19.7
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	10816	8728	8252
55	9170	7316	7394
65	7201	6252	6717
75	4959	5110	5959
85	2216	4335	5224

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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>
<b>0</b>	1013.394	1013.394	1013.394	1013.394	1013.394
<b>5</b>	1022.110	1009.265	1008.806	1006.512	994.584
<b>10</b>	1004.677	993.208	994.126	991.373	980.363
<b>15</b>	976.693	965.683	968.435	965.683	956.508
<b>20</b>	929.900	921.642	929.900	925.771	916.137
<b>25</b>	872.096	868.885	876.225	875.767	861.545
<b>30</b>	808.329	809.706	817.963	817.963	800.530
<b>35</b>	730.341	741.351	745.480	746.856	728.964
<b>40</b>	645.471	661.986	658.316	665.656	656.481
<b>45</b>	562.436	577.116	576.198	589.502	587.209
<b>50</b>	477.566	490.870	501.421	523.900	528.488
<b>55</b>	390.402	406.917	430.314	463.803	478.942
<b>60</b>	308.284	328.470	368.382	409.670	429.396
<b>65</b>	229.378	261.491	311.496	358.748	378.933
<b>70</b>	157.354	199.559	253.234	304.614	328.470
<b>75</b>	100.009	140.380	200.935	252.316	276.172
<b>80</b>	54.592	93.586	157.812	204.605	226.626
<b>85</b>	17.433	57.345	119.735	161.482	182.126
<b>90</b>	0.000	37.159	91.293	130.287	144.508
<b>95</b>	0.000	33.948	85.329	119.277	127.534
<b>100</b>	0.000	32.113	79.365	108.725	116.065
<b>105</b>	0.000	29.360	74.319	100.468	107.808
<b>110</b>	0.000	27.525	69.272	94.045	101.385
<b>115</b>	0.000	25.232	63.308	88.081	94.963
<b>120</b>	0.000	21.562	56.886	79.824	88.081
<b>125</b>	0.000	17.892	51.381	72.942	80.282
<b>130</b>	0.000	14.680	44.499	65.143	70.190
<b>135</b>	0.000	13.304	35.783	56.427	61.473
<b>140</b>	0.000	11.010	27.984	47.252	52.298
<b>145</b>	0.000	8.716	21.562	36.701	41.747
<b>150</b>	0.000	6.423	16.515	27.984	32.113
<b>155</b>	0.000	5.046	13.304	20.185	23.397
<b>160</b>	0.000	0.000	9.634	14.680	16.515
<b>165</b>	0.000	0.000	6.423	10.551	11.469
<b>170</b>	0.000	0.000	0.000	6.423	6.881
<b>175</b>	0.000	0.000	0.000	0.000	0.000
<b>180</b>	0.000	0.000	0.000	0.000	0.000

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	367.88	N.A.	12.20
0-30	769.52	N.A.	25.60
0-40	1231.86	N.A.	41.00
0-60	2069.95	N.A.	68.90
0-80	2584.93	N.A.	86.10
0-90	2707.9	N.A.	90.20
10-90	2612.15	N.A.	87.00
20-40	863.97	N.A.	28.80
20-50	1312.4	N.A.	43.70
40-70	1144.43	N.A.	38.10
60-80	514.98	N.A.	17.10
70-80	208.65	N.A.	6.90
80-90	122.97	N.A.	4.10
90-110	151.31	N.A.	5.00
90-120	206.70	N.A.	6.90
90-130	247.51	N.A.	8.20
90-150	288.01	N.A.	9.60
90-180	295.60	N.A.	9.80
110-180	144.29	N.A.	4.80
0-180	3003.5	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	95.75
10-20	272.13
20-30	401.64
30-40	462.33
40-50	448.43
50-60	389.67
60-70	306.33
70-80	208.65
80-90	122.97
90-100	82.79
100-110	68.52
110-120	55.39
120-130	40.81
130-140	26.45
140-150	14.05
150-160	5.88
160-170	1.62
170-180	0.09

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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	90	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**

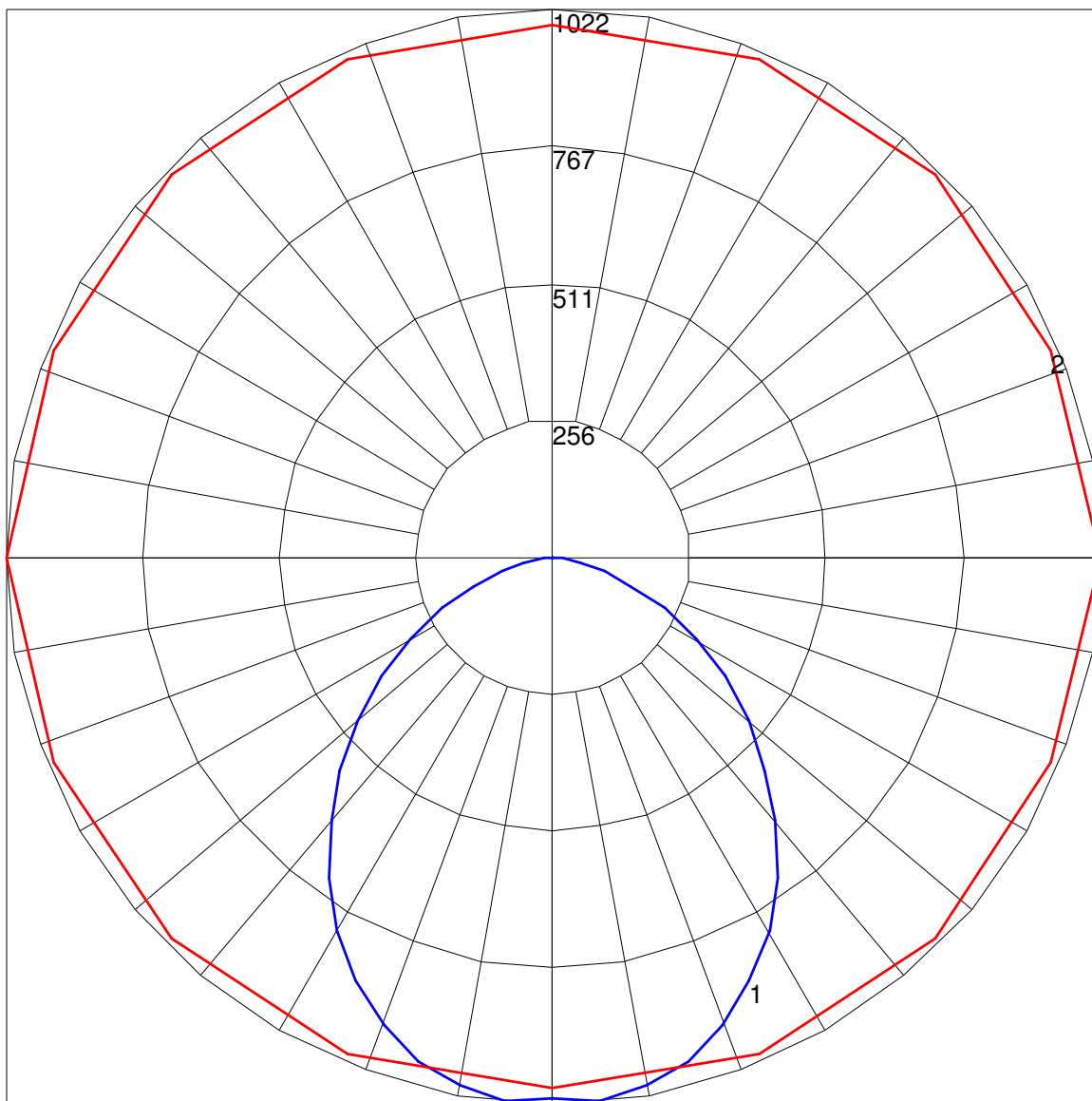
Reflectances

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	16.9	18.3	17.4	18.8	19.4	19.1	20.6	19.7	21.1	21.6
	3H	18.1	19.3	18.6	19.9	20.4	21.5	22.8	22.1	23.3	23.9
	4H	18.4	19.6	18.9	20.1	20.7	22.7	23.9	23.2	24.4	25.0
	6H	18.5	19.7	19.1	20.2	20.8	23.8	24.9	24.4	25.5	26.1
	8H	18.5	19.6	19.1	20.2	20.8	24.4	25.5	25.0	26.0	26.7
	12H	18.5	19.6	19.1	20.1	20.8	25.0	26.0	25.6	26.6	27.3
4H	2H	17.7	18.9	18.2	19.5	20.1	19.5	20.7	20.0	21.2	21.9
	3H	19.1	20.1	19.7	20.7	21.4	22.1	23.1	22.7	23.7	24.3
	4H	19.6	20.5	20.1	21.1	21.7	23.4	24.3	24.0	24.9	25.6
	6H	19.8	20.6	20.4	21.3	21.9	24.7	25.5	25.3	26.1	26.8
	8H	19.9	20.7	20.5	21.3	21.9	25.4	26.2	26.0	26.8	27.5
	12H	19.9	20.6	20.5	21.2	21.9	26.1	26.8	26.8	27.5	28.2
8H	4H	20.2	21.0	20.8	21.6	22.3	23.5	24.3	24.1	24.9	25.6
	6H	20.6	21.3	21.3	21.9	22.6	25.0	25.7	25.7	26.3	27.0
	8H	20.8	21.3	21.4	22.0	22.7	25.8	26.4	26.5	27.1	27.8
	12H	20.8	21.3	21.5	22.0	22.8	26.7	27.2	27.4	27.9	28.7
12H	4H	20.4	21.1	21.0	21.7	22.4	23.5	24.2	24.1	24.9	25.6
	6H	20.9	21.5	21.6	22.1	22.9	25.0	25.6	25.7	26.2	27.0
	8H	21.1	21.6	21.8	22.3	23.1	25.9	26.4	26.5	27.1	27.8

Maximum UGR = 28.7

POLAR GRAPH



Maximum Candela = 1022.11 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.)