



## 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] 07-17-2020

[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	3278
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	163
Total Luminaire Watts	20.1
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	11805	9526	9006
55	10008	7985	8070
65	7859	6823	7331
75	5412	5577	6504
85	2418	4731	5701

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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	1106.019	1106.019	1106.019	1106.019	1106.019
5	1115.532	1101.512	1101.012	1098.508	1085.490
10	1096.505	1083.988	1084.990	1081.986	1069.969
15	1065.964	1053.947	1056.951	1053.947	1043.933
20	1014.893	1005.881	1014.893	1010.387	999.873
25	951.807	948.302	956.313	955.812	940.291
30	882.211	883.713	892.726	892.726	873.700
35	797.094	809.111	813.617	815.119	795.592
40	704.467	722.492	718.486	726.497	716.484
45	613.843	629.865	628.863	643.383	640.880
50	521.216	535.736	547.251	571.785	576.792
55	426.085	444.110	469.645	506.195	522.718
60	336.462	358.492	402.052	447.114	468.643
65	250.344	285.392	339.967	391.538	413.568
70	171.736	217.799	276.379	332.456	358.492
75	109.150	153.210	219.301	275.378	301.414
80	59.582	102.140	172.236	223.307	247.340
85	19.026	62.586	130.679	176.242	198.773
90	0.000	40.556	99.637	142.195	157.717
95	0.000	37.051	93.128	130.179	139.191
100	0.000	35.048	86.619	118.663	126.674
105	0.000	32.044	81.111	109.651	117.662
110	0.000	30.041	75.604	102.641	110.652
115	0.000	27.538	69.095	96.132	103.642
120	0.000	23.532	62.085	87.120	96.132
125	0.000	19.527	56.077	79.609	87.620
130	0.000	16.022	48.567	71.098	76.605
135	0.000	14.520	39.054	61.585	67.092
140	0.000	12.016	30.542	51.571	57.078
145	0.000	9.513	23.532	40.055	45.563
150	0.000	7.010	18.025	30.542	35.048
155	0.000	5.508	14.520	22.030	25.535
160	0.000	0.000	10.514	16.022	18.025
165	0.000	0.000	7.010	11.516	12.517
170	0.000	0.000	0.000	7.010	7.510
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	401.51	N.A.	12.20
0-30	839.86	N.A.	25.60
0-40	1344.45	N.A.	41.00
0-60	2259.15	N.A.	68.90
0-80	2821.2	N.A.	86.10
0-90	2955.41	N.A.	90.20
10-90	2850.9	N.A.	87.00
20-40	942.94	N.A.	28.80
20-50	1432.35	N.A.	43.70
40-70	1249.03	N.A.	38.10
60-80	562.05	N.A.	17.10
70-80	227.72	N.A.	6.90
80-90	134.21	N.A.	4.10
90-110	165.14	N.A.	5.00
90-120	225.59	N.A.	6.90
90-130	270.13	N.A.	8.20
90-150	314.33	N.A.	9.60
90-180	322.61	N.A.	9.80
110-180	157.47	N.A.	4.80
0-180	3278.02	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	104.50
10-20	297.01
20-30	438.35
30-40	504.59
40-50	489.41
50-60	425.28
60-70	334.33
70-80	227.72
80-90	134.21
90-100	90.36
100-110	74.78
110-120	60.45
120-130	44.54
130-140	28.86
140-150	15.34
150-160	6.42
160-170	1.77
170-180	0.10

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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**

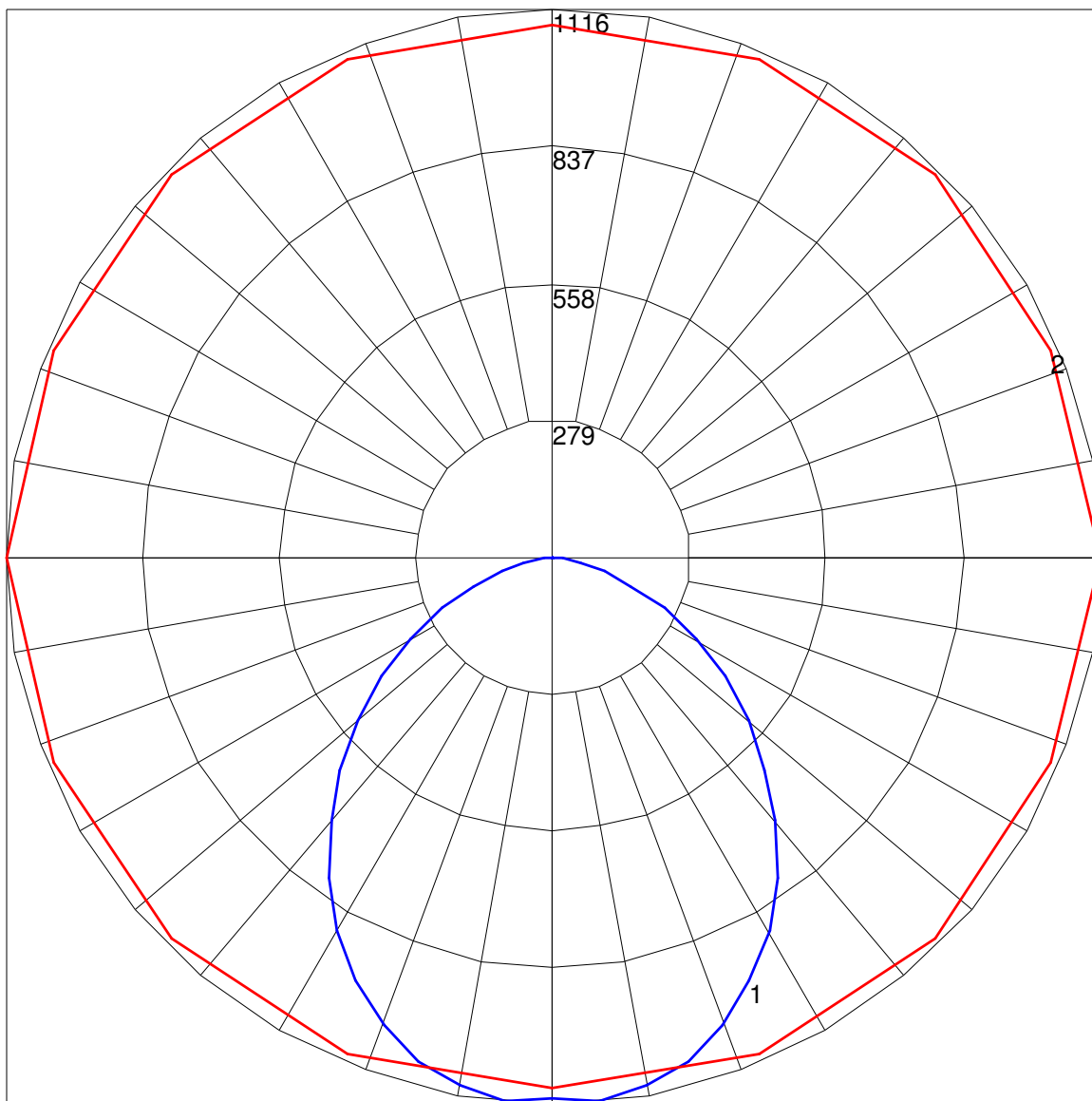
Reflectances

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	17.2	18.6	17.7	19.1	19.7	19.4	20.9	20.0	21.4	21.9
	3H	18.4	19.6	18.9	20.2	20.7	21.8	23.1	22.4	23.6	24.2
	4H	18.7	19.9	19.2	20.4	21.0	23.0	24.2	23.5	24.7	25.3
	6H	18.8	20.0	19.4	20.5	21.1	24.1	25.2	24.7	25.8	26.4
	8H	18.8	19.9	19.4	20.5	21.1	24.7	25.8	25.3	26.3	27.0
	12H	18.8	19.9	19.4	20.4	21.1	25.3	26.3	25.9	26.9	27.6
4H	2H	18.0	19.2	18.5	19.7	20.4	19.8	21.0	20.3	21.5	22.2
	3H	19.4	20.4	20.0	21.0	21.7	22.4	23.4	23.0	24.0	24.6
	4H	19.9	20.8	20.4	21.4	22.0	23.7	24.6	24.3	25.2	25.9
	6H	20.1	20.9	20.7	21.6	22.2	25.0	25.8	25.6	26.4	27.1
	8H	20.2	20.9	20.8	21.6	22.2	25.7	26.5	26.3	27.1	27.8
	12H	20.2	20.9	20.8	21.5	22.2	26.4	27.1	27.0	27.8	28.5
8H	4H	20.5	21.3	21.1	21.9	22.6	23.8	24.6	24.4	25.2	25.9
	6H	20.9	21.6	21.6	22.2	22.9	25.3	26.0	26.0	26.6	27.3
	8H	21.1	21.6	21.7	22.3	23.0	26.1	26.7	26.8	27.4	28.1
	12H	21.1	21.6	21.8	22.3	23.1	27.0	27.5	27.7	28.2	29.0
12H	4H	20.7	21.4	21.3	22.0	22.7	23.8	24.5	24.4	25.2	25.9
	6H	21.2	21.8	21.9	22.4	23.2	25.3	25.9	26.0	26.5	27.3
	8H	21.4	21.9	22.1	22.6	23.4	26.2	26.7	26.8	27.4	28.1

Maximum UGR = 29.0

POLAR GRAPH



Maximum Candela = 1115.532 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.)