



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75S-4-L50-840-(L42)-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] 09-26-2024

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 44.625 INCH SURFACE MOUNT STRIP LUMINAIRE

[MORE] WHITE REFLECTOR w/FROSTED ACRYLIC SQUARE LENS

[LUMCAT] 75S-4-L50-840-(L42)-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	4480
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	127
Total Luminaire Watts	35.2
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	16134	13018	12308
55	13678	10913	11029
65	10741	9325	10019
75	7396	7623	8889
85	3305	6466	7792

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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	1511.581	1511.581	1511.581	1511.581	1511.581
5	1524.582	1505.422	1504.738	1501.317	1483.525
10	1498.580	1481.472	1482.841	1478.735	1462.313
15	1456.838	1440.416	1444.521	1440.416	1426.730
20	1387.041	1374.724	1387.041	1380.883	1366.513
25	1300.822	1296.032	1306.980	1306.296	1285.083
30	1205.706	1207.759	1220.076	1220.076	1194.074
35	1089.378	1105.801	1111.960	1114.013	1087.326
40	962.786	987.420	981.946	992.894	979.209
45	838.931	860.828	859.459	879.304	875.882
50	712.338	732.183	747.921	781.451	788.294
55	582.325	606.959	641.857	691.810	714.391
60	459.838	489.947	549.479	611.065	640.489
65	342.141	390.041	464.628	535.109	565.218
70	234.709	297.663	377.724	454.364	489.947
75	149.174	209.391	299.716	376.356	411.938
80	81.430	139.594	235.393	305.190	338.036
85	26.003	85.535	178.598	240.868	271.660
90	0.000	55.427	136.172	194.336	215.549
95	0.000	50.637	127.277	177.914	190.231
100	0.000	47.900	118.381	162.175	173.124
105	0.000	43.794	110.854	149.858	160.806
110	0.000	41.057	103.327	140.278	151.227
115	0.000	37.636	94.431	131.382	141.647
120	0.000	32.161	84.851	119.065	131.382
125	0.000	26.687	76.640	108.801	119.750
130	0.000	21.897	66.375	97.168	104.695
135	0.000	19.844	53.374	84.167	91.694
140	0.000	16.423	41.741	70.481	78.008
145	0.000	13.001	32.161	54.743	62.270
150	0.000	9.580	24.634	41.741	47.900
155	0.000	7.527	19.844	30.108	34.898
160	0.000	0.000	14.370	21.897	24.634
165	0.000	0.000	9.580	15.739	17.107
170	0.000	0.000	0.000	9.580	10.264
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	548.74	N.A.	12.20
0-30	1147.82	N.A.	25.60
0-40	1837.44	N.A.	41.00
0-60	3087.54	N.A.	68.90
0-80	3855.7	N.A.	86.10
0-90	4039.12	N.A.	90.20
10-90	3896.29	N.A.	87.00
20-40	1288.7	N.A.	28.80
20-50	1957.58	N.A.	43.70
40-70	1707.03	N.A.	38.10
60-80	768.15	N.A.	17.10
70-80	311.22	N.A.	6.90
80-90	183.42	N.A.	4.10
90-110	225.69	N.A.	5.00
90-120	308.32	N.A.	6.90
90-130	369.18	N.A.	8.20
90-150	429.59	N.A.	9.60
90-180	440.91	N.A.	9.80
110-180	215.22	N.A.	4.80
0-180	4480.03	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	142.82
10-20	405.91
20-30	599.09
30-40	689.62
40-50	668.87
50-60	581.23
60-70	456.93
70-80	311.22
80-90	183.42
90-100	123.49
100-110	102.20
110-120	82.62
120-130	60.87
130-140	39.45
140-150	20.96
150-160	8.77
160-170	2.42
170-180	0.13

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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

X=2H	Y=2H	18.3	19.7	18.8	20.2	20.8	20.5	22.0	21.1	22.5	23.0
	3H	19.5	20.7	20.0	21.3	21.8	22.9	24.2	23.5	24.7	25.3
	4H	19.8	21.0	20.3	21.5	22.1	24.1	25.3	24.6	25.8	26.4
	6H	19.9	21.1	20.5	21.6	22.2	25.2	26.3	25.8	26.9	27.5
	8H	19.9	21.0	20.5	21.6	22.2	25.8	26.9	26.4	27.4	28.1
	12H	19.9	21.0	20.5	21.5	22.2	26.4	27.4	27.0	28.0	28.7

UGR Viewed Endwise

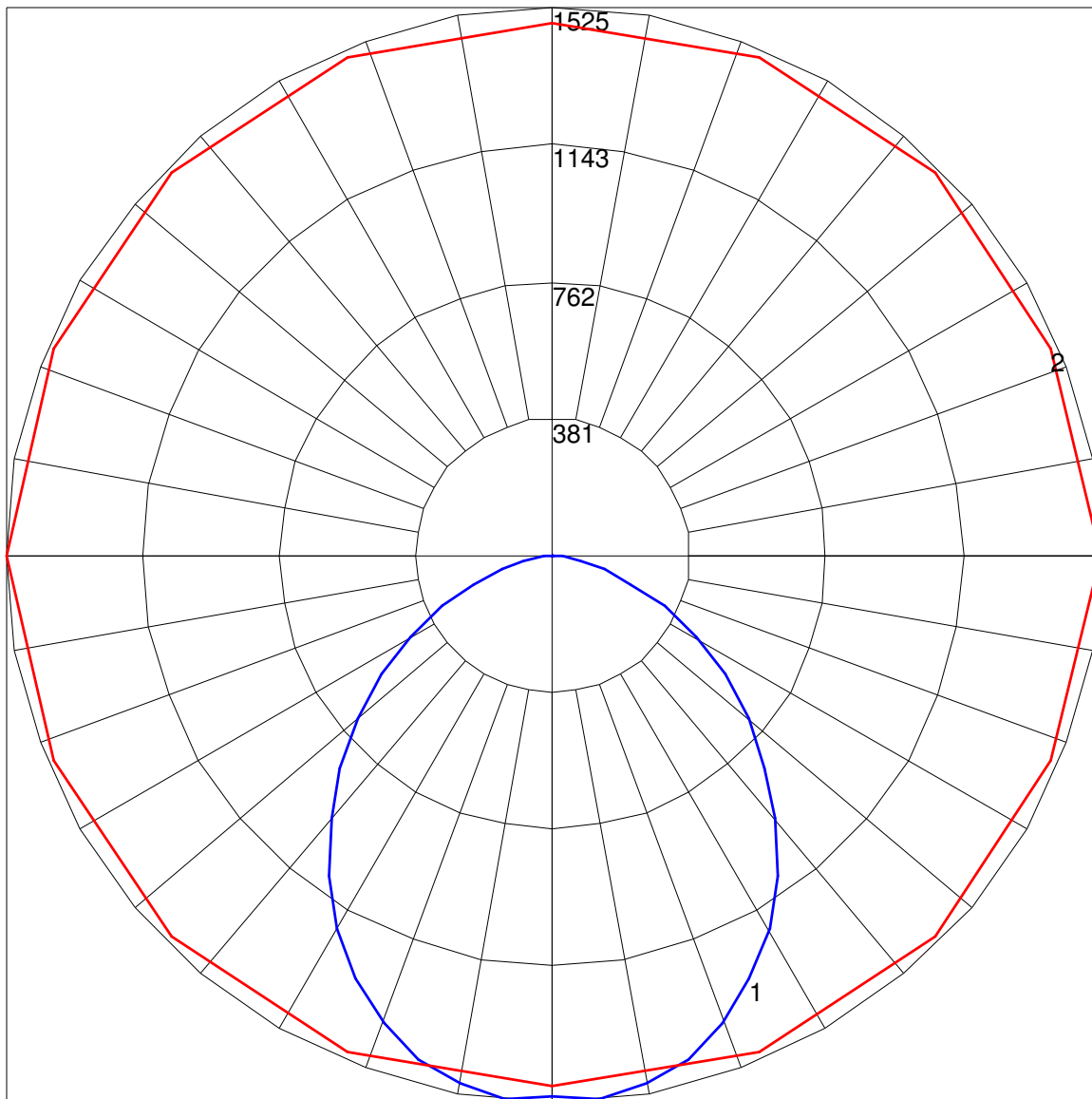
4H	2H	19.1	20.3	19.6	20.8	21.5	20.9	22.1	21.4	22.6	23.3
	3H	20.5	21.5	21.1	22.1	22.8	23.5	24.5	24.1	25.1	25.7
	4H	21.0	21.9	21.5	22.5	23.1	24.8	25.7	25.4	26.3	27.0
	6H	21.2	22.0	21.8	22.7	23.3	26.1	26.9	26.7	27.5	28.2
	8H	21.3	22.0	21.9	22.7	23.3	26.8	27.6	27.4	28.2	28.9
	12H	21.3	22.0	21.9	22.6	23.3	27.5	28.2	28.1	28.9	29.6

8H	4H	21.6	22.4	22.2	23.0	23.7	24.9	25.7	25.5	26.3	27.0
	6H	22.0	22.7	22.7	23.3	24.0	26.4	27.1	27.1	27.7	28.4
	8H	22.2	22.7	22.8	23.4	24.1	27.2	27.8	27.9	28.5	29.2
	12H	22.2	22.7	22.9	23.4	24.2	28.1	28.6	28.8	29.3	30.1

12H	4H	21.8	22.5	22.4	23.1	23.8	24.9	25.6	25.5	26.3	27.0
	6H	22.3	22.9	23.0	23.5	24.3	26.4	27.0	27.1	27.6	28.4
	8H	22.5	23.0	23.2	23.7	24.5	27.3	27.8	27.9	28.5	29.2

Maximum UGR = 30.1

POLAR GRAPH



Maximum Candela = 1524.582 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.)