

IES INDOOR REPORT

PHOTOMETRIC FILENAME : COPY_75S-4-L50-840-DIM-UNV_1.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN FROM BALLABS TEST NO. 19745.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUE DATE] 05/17/2023

[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-(L40)-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	4263
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	149
Total Luminaire Watts	28.62
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	15352	12388	11712
55	13015	10385	10495
65	10220	8874	9534
75	7038	7253	8458
85	3145	6153	7415

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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	1438.364	1438.364	1438.364	1438.364	1438.364
5	1450.735	1432.503	1431.852	1428.597	1411.667
10	1425.992	1409.714	1411.016	1407.109	1391.482
15	1386.273	1370.645	1374.552	1370.645	1357.622
20	1319.856	1308.136	1319.856	1313.996	1300.322
25	1237.813	1233.255	1243.673	1243.022	1222.837
30	1147.305	1149.258	1160.979	1160.979	1136.236
35	1036.612	1052.239	1058.099	1060.052	1034.658
40	916.151	939.592	934.383	944.801	931.778
45	798.295	819.131	817.829	836.712	833.456
50	677.835	696.718	711.694	743.599	750.111
55	554.118	577.559	610.767	658.300	679.788
60	437.565	466.215	522.864	581.466	609.465
65	325.569	371.149	442.123	509.190	537.840
70	223.340	283.245	359.428	432.356	466.215
75	141.948	199.248	285.198	358.126	391.985
80	77.485	132.832	223.991	290.407	321.662
85	24.743	81.392	169.947	229.201	258.502
90	0.000	52.742	129.576	184.923	205.108
95	0.000	48.184	121.112	169.296	181.016
100	0.000	45.580	112.647	154.320	164.738
105	0.000	41.673	105.484	142.599	153.017
110	0.000	39.068	98.322	133.483	143.901
115	0.000	35.813	89.857	125.018	134.786
120	0.000	30.603	80.741	113.298	125.018
125	0.000	25.394	72.927	103.531	113.949
130	0.000	20.836	63.160	92.462	99.624
135	0.000	18.883	50.789	80.090	87.252
140	0.000	15.627	39.719	67.067	74.230
145	0.000	12.372	30.603	52.091	59.254
150	0.000	9.116	23.441	39.719	45.580
155	0.000	7.163	18.883	28.650	33.208
160	0.000	0.000	13.674	20.836	23.441
165	0.000	0.000	9.116	14.976	16.278
170	0.000	0.000	0.000	9.116	9.767
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	522.16	N.A.	12.20
0-30	1092.23	N.A.	25.60
0-40	1748.44	N.A.	41.00
0-60	2937.99	N.A.	68.90
0-80	3668.94	N.A.	86.10
0-90	3843.47	N.A.	90.20
10-90	3707.57	N.A.	87.00
20-40	1226.28	N.A.	28.80
20-50	1862.76	N.A.	43.70
40-70	1624.35	N.A.	38.10
60-80	730.94	N.A.	17.10
70-80	296.15	N.A.	6.90
80-90	174.53	N.A.	4.10
90-110	214.76	N.A.	5.00
90-120	293.38	N.A.	6.90
90-130	351.30	N.A.	8.20
90-150	408.78	N.A.	9.60
90-180	419.55	N.A.	9.80
110-180	204.79	N.A.	4.80
0-180	4263.02	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	135.91
10-20	386.25
20-30	570.07
30-40	656.21
40-50	636.48
50-60	553.08
60-70	434.80
70-80	296.15
80-90	174.53
90-100	117.51
100-110	97.25
110-120	78.62
120-130	57.92
130-140	37.54
140-150	19.95
150-160	8.35
160-170	2.30
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

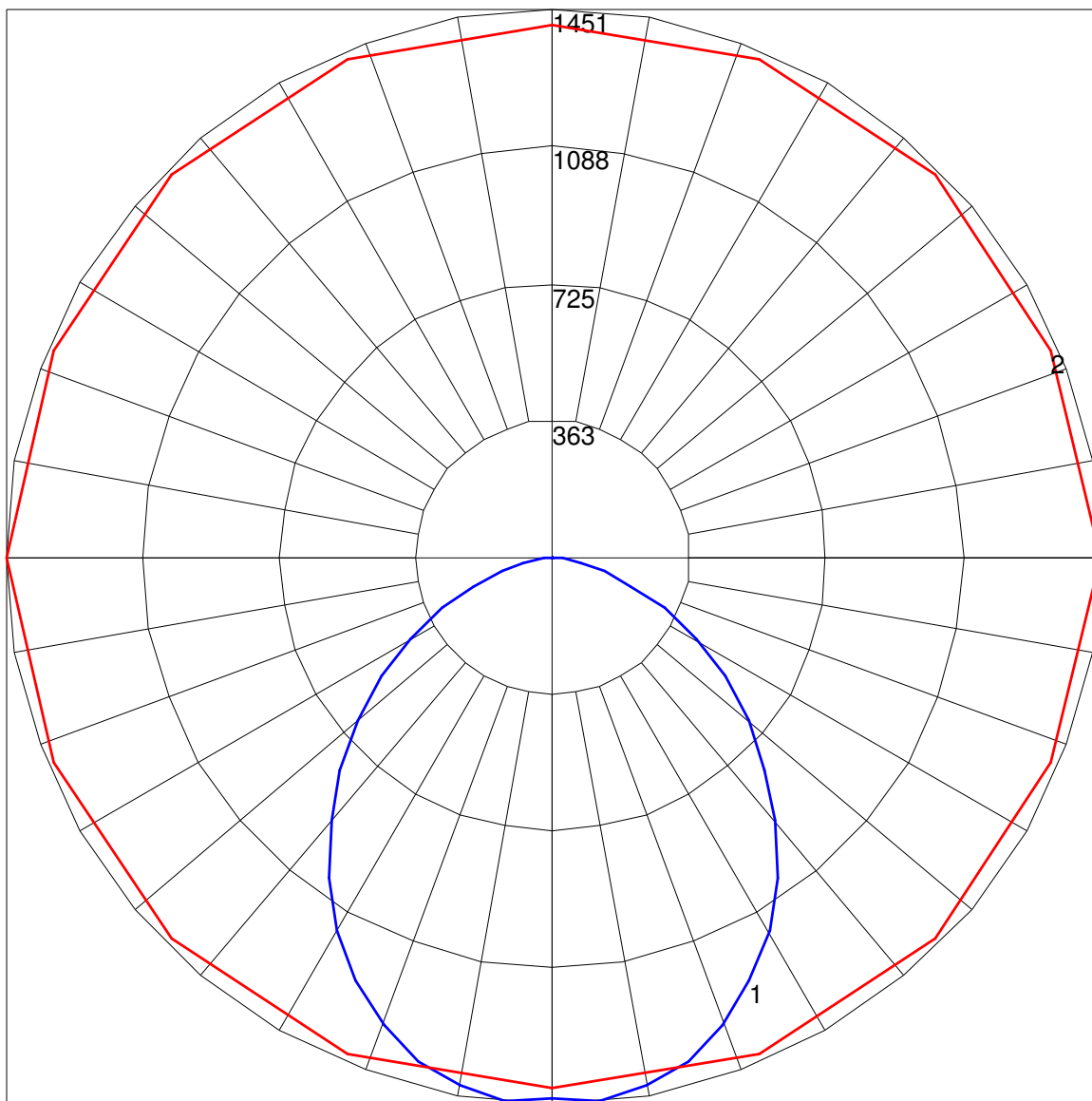
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UGR TABLE - CORRECTED

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					UGR Viewed Endwise				
X=2H	Y=2H	18.1	19.5	18.6	20.0	20.6	20.3	21.8	20.9	22.3	22.8
	3H	19.3	20.5	19.8	21.1	21.6	22.7	24.0	23.3	24.5	25.1
	4H	19.6	20.8	20.1	21.3	21.9	23.9	25.1	24.4	25.6	26.2
	6H	19.7	20.9	20.3	21.4	22.0	25.0	26.1	25.6	26.7	27.3
	8H	19.7	20.8	20.3	21.4	22.0	25.6	26.7	26.2	27.2	27.9
	12H	19.7	20.8	20.3	21.3	22.0	26.2	27.2	26.8	27.8	28.5
4H	2H	18.9	20.1	19.4	20.6	21.3	20.7	21.9	21.2	22.4	23.1
	3H	20.3	21.3	20.9	21.9	22.6	23.3	24.3	23.9	24.9	25.5
	4H	20.8	21.7	21.3	22.3	22.9	24.6	25.5	25.2	26.1	26.8
	6H	21.0	21.8	21.6	22.5	23.1	25.9	26.7	26.5	27.3	28.0
	8H	21.1	21.9	21.7	22.5	23.1	26.6	27.4	27.2	28.0	28.7
	12H	21.1	21.8	21.7	22.4	23.1	27.3	28.0	28.0	28.7	29.4
8H	4H	21.4	22.2	22.0	22.8	23.5	24.7	25.5	25.3	26.1	26.8
	6H	21.8	22.5	22.5	23.1	23.8	26.2	26.9	26.9	27.5	28.2
	8H	22.0	22.5	22.6	23.2	23.9	27.0	27.6	27.7	28.3	29.0
	12H	22.0	22.5	22.7	23.2	24.0	27.9	28.4	28.6	29.1	29.9
12H	4H	21.6	22.3	22.2	22.9	23.6	24.7	25.4	25.3	26.1	26.8
	6H	22.1	22.7	22.8	23.3	24.1	26.2	26.8	26.9	27.4	28.2
	8H	22.3	22.8	23.0	23.5	24.3	27.1	27.6	27.7	28.3	29.0

Maximum UGR = 29.9

POLAR GRAPH



Maximum Candela = 1450.735 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.)