



IES INDOOR REPORT
PHOTOMETRIC FILENAME : 75S-4-L30-940-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
 [ISSUE DATE] 15 Jul, 2024
 [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-L30-940-DIM-UNV
 [LAMPCAT] HLM 90 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	2508
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	127
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	9033	7289	6892
55	7658	6110	6175
65	6014	5221	5610
75	4141	4268	4977
85	1850	3620	4363

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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	846.334	846.334	846.334	846.334	846.334
5	853.614	842.886	842.503	840.587	830.626
10	839.055	829.476	830.243	827.944	818.749
15	815.684	806.489	808.787	806.489	798.826
20	776.605	769.708	776.605	773.156	765.111
25	728.330	725.648	731.778	731.395	719.518
30	675.075	676.224	683.121	683.121	668.562
35	609.943	619.138	622.586	623.736	608.794
40	539.064	552.857	549.792	555.922	548.259
45	469.717	481.978	481.211	492.322	490.406
50	398.838	409.949	418.761	437.534	441.366
55	326.044	339.836	359.376	387.344	399.988
60	257.463	274.321	307.653	342.135	358.610
65	191.565	218.384	260.145	299.608	316.465
70	131.414	166.662	211.488	254.398	274.321
75	83.522	117.238	167.811	210.722	230.644
80	45.592	78.159	131.797	170.876	189.266
85	14.559	47.891	99.997	134.862	152.103
90	0.000	31.034	76.243	108.809	120.686
95	0.000	28.352	71.262	99.614	106.510
100	0.000	26.819	66.281	90.802	96.932
105	0.000	24.520	62.067	83.905	90.036
110	0.000	22.988	57.853	78.542	84.672
115	0.000	21.072	52.872	73.561	79.308
120	0.000	18.007	47.508	66.665	73.561
125	0.000	14.942	42.911	60.918	67.048
130	0.000	12.260	37.164	54.404	58.619
135	0.000	11.111	29.884	47.125	51.339
140	0.000	9.195	23.371	39.462	43.677
145	0.000	7.279	18.007	30.650	34.865
150	0.000	5.364	13.793	23.371	26.819
155	0.000	4.214	11.111	16.858	19.540
160	0.000	0.000	8.046	12.260	13.793
165	0.000	0.000	5.364	8.812	9.578
170	0.000	0.000	0.000	5.364	5.747
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	307.24	N.A.	12.20
0-30	642.67	N.A.	25.60
0-40	1028.78	N.A.	41.00
0-60	1728.72	N.A.	68.90
0-80	2158.8	N.A.	86.10
0-90	2261.5	N.A.	90.20
10-90	2181.53	N.A.	87.00
20-40	721.55	N.A.	28.80
20-50	1096.05	N.A.	43.70
40-70	955.77	N.A.	38.10
60-80	430.09	N.A.	17.10
70-80	174.25	N.A.	6.90
80-90	102.70	N.A.	4.10
90-110	126.37	N.A.	5.00
90-120	172.63	N.A.	6.90
90-130	206.71	N.A.	8.20
90-150	240.53	N.A.	9.60
90-180	246.87	N.A.	9.80
110-180	120.50	N.A.	4.80
0-180	2508.37	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	79.97
10-20	227.27
20-30	335.43
30-40	386.12
40-50	374.50
50-60	325.43
60-70	255.83
70-80	174.25
80-90	102.70
90-100	69.14
100-110	57.22
110-120	46.26
120-130	34.08
130-140	22.09
140-150	11.74
150-160	4.91
160-170	1.35
170-180	0.07

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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	111	111	111	111	107	107	107	107	100	100	100	94	94	94	88	88	88	86
1	100	96	91	87	97	92	89	85	87	84	81	81	79	76	76	74	73	70
2	91	83	77	71	88	81	75	69	76	71	66	71	67	63	67	64	61	58
3	83	73	65	59	80	71	64	58	67	61	56	63	58	54	59	55	52	49
4	76	65	57	50	73	63	55	49	59	53	48	56	51	46	53	48	44	42
5	70	58	50	43	68	56	49	43	53	47	41	51	45	40	48	43	39	37
6	65	52	44	38	62	51	43	37	48	41	36	46	40	35	44	38	34	32
7	60	48	39	34	58	46	39	33	44	37	32	42	36	31	40	35	31	29
8	56	43	35	30	54	42	35	30	40	34	29	38	33	28	37	31	27	26
9	52	40	32	27	51	39	32	27	37	31	26	36	30	25	34	29	25	23
10	49	37	29	25	48	36	29	24	34	28	24	33	27	23	32	26	23	21

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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	16.5	17.9	17.0	18.4	19.0	18.7	20.2	19.3	20.7	21.2
	3H	17.7	18.9	18.2	19.5	20.0	21.1	22.4	21.7	22.9	23.5
	4H	18.0	19.2	18.5	19.7	20.3	22.3	23.5	22.8	24.0	24.6
	6H	18.1	19.3	18.7	19.8	20.4	23.4	24.5	24.0	25.1	25.7
	8H	18.1	19.2	18.7	19.8	20.4	24.0	25.1	24.6	25.6	26.3
	12H	18.1	19.2	18.7	19.7	20.4	24.6	25.6	25.2	26.2	26.9

UGR Viewed Endwise

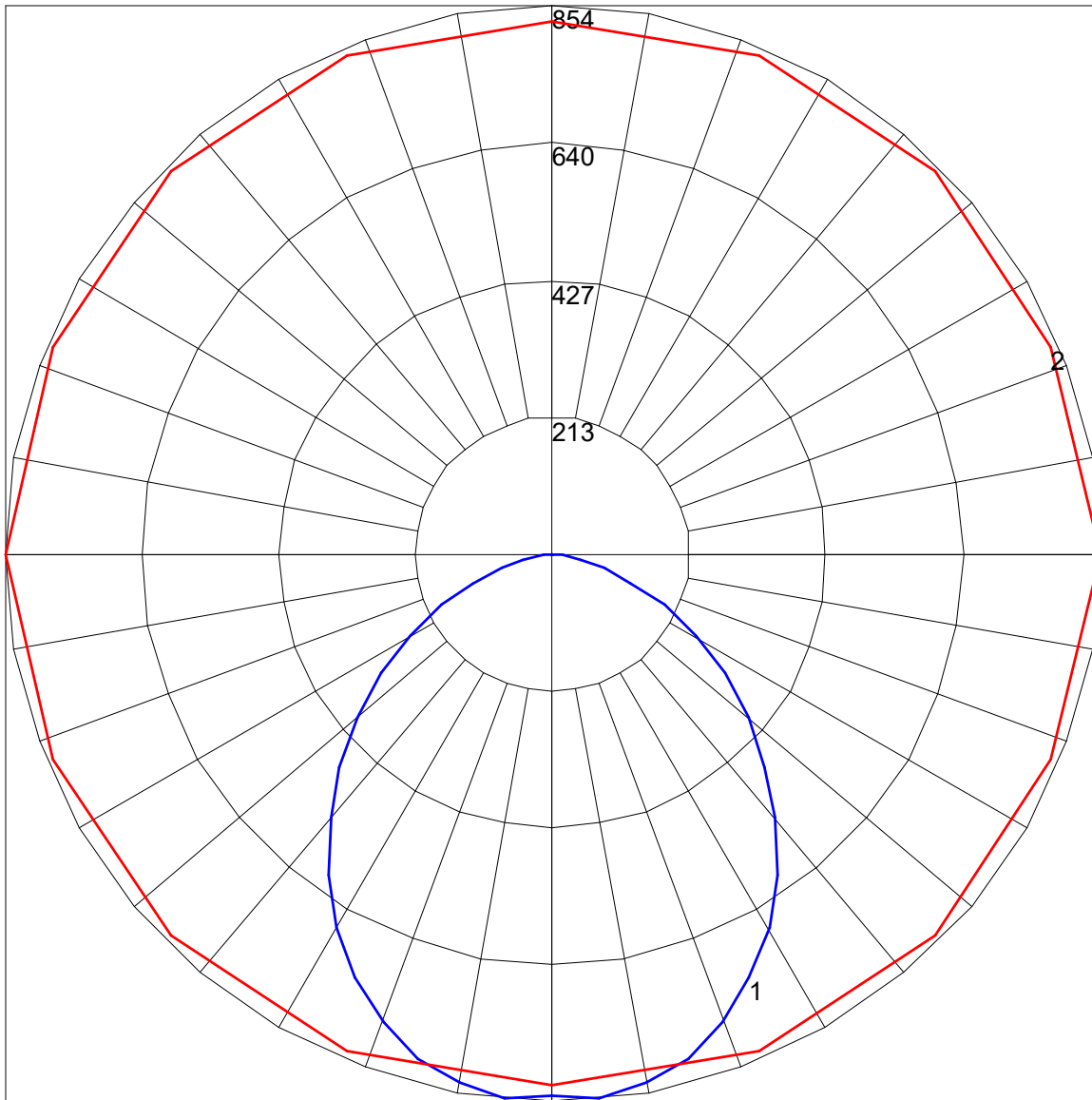
4H	2H	17.3	18.5	17.8	19.0	19.7	19.1	20.3	19.6	20.8	21.5
	3H	18.7	19.7	19.3	20.3	21.0	21.7	22.7	22.3	23.3	23.9
	4H	19.2	20.1	19.7	20.7	21.3	23.0	23.9	23.6	24.5	25.2
	6H	19.4	20.2	20.0	20.9	21.5	24.3	25.1	24.9	25.7	26.4
	8H	19.5	20.2	20.1	20.9	21.5	25.0	25.8	25.6	26.4	27.1
	12H	19.5	20.2	20.1	20.8	21.5	25.7	26.4	26.3	27.1	27.8

8H	4H	19.8	20.6	20.4	21.2	21.9	23.1	23.9	23.7	24.5	25.2
	6H	20.2	20.9	20.9	21.5	22.2	24.6	25.3	25.3	25.9	26.6
	8H	20.4	20.9	21.0	21.6	22.3	25.4	26.0	26.1	26.7	27.4
	12H	20.4	20.9	21.1	21.6	22.4	26.3	26.8	27.0	27.5	28.3

12H	4H	20.0	20.7	20.6	21.3	22.0	23.1	23.8	23.7	24.5	25.2
	6H	20.5	21.1	21.2	21.7	22.5	24.6	25.2	25.3	25.8	26.6
	8H	20.7	21.2	21.4	21.9	22.7	25.5	26.0	26.1	26.7	27.4

Maximum UGR = 28.3

POLAR GRAPH



Maximum Candela = 853.614 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.)