



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75S-4-L85-940-(L70)-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] 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-L85-940-(L70)-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	5973
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	133
Total Luminaire Watts	44.8
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	21510	17356	16410
55	18236	14550	14705
65	14320	12433	13358
75	9861	10163	11851
85	4406	8621	10388

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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	2015.271	2015.271	2015.271	2015.271	2015.271
5	2032.604	2007.060	2006.148	2001.586	1977.866
10	1997.937	1975.129	1976.954	1971.480	1949.585
15	1942.287	1920.391	1925.865	1920.391	1902.145
20	1849.232	1832.811	1849.232	1841.021	1821.863
25	1734.282	1727.896	1742.493	1741.581	1713.299
30	1607.473	1610.209	1626.631	1626.631	1591.963
35	1452.382	1474.277	1482.487	1485.224	1449.645
40	1283.606	1316.449	1309.150	1323.747	1305.501
45	1118.480	1147.673	1145.849	1172.305	1167.744
50	949.704	976.161	997.144	1041.847	1050.970
55	776.367	809.210	855.737	922.335	952.441
60	613.066	653.207	732.577	814.684	853.913
65	456.150	520.011	619.452	713.419	753.560
70	312.919	396.850	503.590	605.767	653.207
75	198.881	279.164	399.587	501.765	549.205
80	108.564	186.109	313.831	406.886	450.676
85	34.667	114.037	238.110	321.130	362.183
90	0.000	73.896	181.548	259.093	287.374
95	0.000	67.510	169.688	237.198	253.619
100	0.000	63.861	157.828	216.215	230.812
105	0.000	58.387	147.793	199.794	214.390
110	0.000	54.738	137.757	187.021	201.618
115	0.000	50.176	125.897	175.162	188.846
120	0.000	42.878	113.125	158.740	175.162
125	0.000	35.580	102.178	145.056	159.652
130	0.000	29.194	88.493	129.547	139.582
135	0.000	26.457	71.159	112.213	122.248
140	0.000	21.895	55.650	93.967	104.002
145	0.000	17.334	42.878	72.984	83.019
150	0.000	12.772	32.843	55.650	63.861
155	0.000	10.035	26.457	40.141	46.527
160	0.000	0.000	19.158	29.194	32.843
165	0.000	0.000	12.772	20.983	22.807
170	0.000	0.000	0.000	12.772	13.684
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	731.59	N.A.	12.20
0-30	1530.3	N.A.	25.60
0-40	2449.71	N.A.	41.00
0-60	4116.38	N.A.	68.90
0-80	5140.49	N.A.	86.10
0-90	5385.03	N.A.	90.20
10-90	5194.62	N.A.	87.00
20-40	1718.13	N.A.	28.80
20-50	2609.88	N.A.	43.70
40-70	2275.85	N.A.	38.10
60-80	1024.11	N.A.	17.10
70-80	414.93	N.A.	6.90
80-90	244.54	N.A.	4.10
90-110	300.90	N.A.	5.00
90-120	411.05	N.A.	6.90
90-130	492.20	N.A.	8.20
90-150	572.74	N.A.	9.60
90-180	587.83	N.A.	9.80
110-180	286.93	N.A.	4.80
0-180	5972.86	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	190.41
10-20	541.17
20-30	798.72
30-40	919.41
40-50	891.76
50-60	774.91
60-70	609.19
70-80	414.93
80-90	244.54
90-100	164.64
100-110	136.26
110-120	110.15
120-130	81.15
130-140	52.59
140-150	27.95
150-160	11.69
160-170	3.23
170-180	0.18

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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	112	112	112	112	108	108	108	108	101	101	101	95	95	95	89	89	89	86
1	101	96	92	88	97	93	89	86	87	84	81	82	79	77	77	75	73	70
2	92	84	77	71	88	81	75	70	76	71	67	72	68	64	67	64	61	59
3	84	74	66	59	81	71	64	58	67	61	56	63	58	54	60	56	52	49
4	77	65	57	51	74	63	56	50	60	53	48	57	51	46	53	49	45	42
5	71	58	50	44	68	57	49	43	54	47	42	51	45	40	48	43	39	37
6	65	53	44	38	63	51	43	38	49	42	37	46	40	36	44	39	35	32
7	61	48	40	34	58	47	39	33	44	37	32	42	36	32	40	35	31	29
8	56	44	36	30	54	43	35	30	41	34	29	39	33	28	37	32	28	26
9	53	40	32	27	51	39	32	27	37	31	26	36	30	26	34	29	25	23
10	50	37	30	25	48	36	29	24	35	28	24	33	27	23	32	27	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

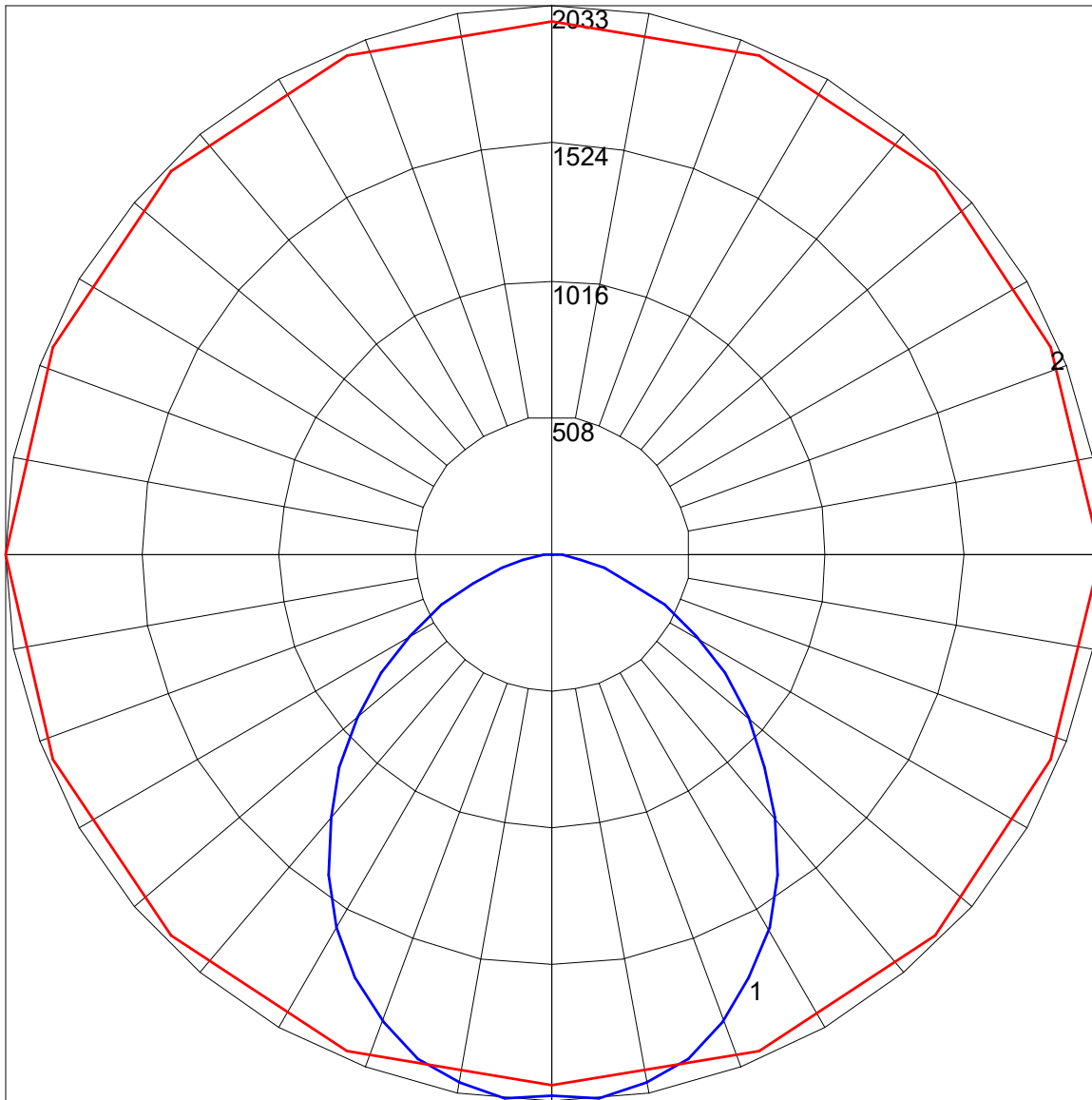
X=2H	Y=2H	19.5	20.9	20.0	21.4	22.0	21.7	23.2	22.3	23.7	24.2
	3H	20.7	21.9	21.2	22.5	23.0	24.1	25.4	24.7	25.9	26.5
	4H	21.0	22.2	21.5	22.7	23.3	25.3	26.5	25.8	27.0	27.6
	6H	21.1	22.3	21.7	22.8	23.4	26.4	27.5	27.0	28.1	28.7
	8H	21.1	22.2	21.7	22.8	23.4	27.0	28.1	27.6	28.6	29.3
	12H	21.1	22.2	21.7	22.7	23.4	27.6	28.6	28.2	29.2	29.9

UGR Viewed Endwise

4H	2H	20.3	21.5	20.8	22.0	22.7	22.1	23.3	22.6	23.8	24.5
	3H	21.7	22.7	22.3	23.3	24.0	24.7	25.7	25.3	26.3	26.9
	4H	22.2	23.1	22.7	23.7	24.3	26.0	26.9	26.6	27.5	28.2
	6H	22.4	23.2	23.0	23.9	24.5	27.3	28.1	27.9	28.7	29.4
	8H	22.5	23.3	23.1	23.9	24.5	28.0	28.8	28.6	29.4	30.1
	12H	22.5	23.2	23.1	23.8	24.5	28.7	29.4	29.4	30.1	30.8
8H	4H	22.8	23.6	23.4	24.2	24.9	26.1	26.9	26.7	27.5	28.2
	6H	23.2	23.9	23.9	24.5	25.2	27.6	28.3	28.3	28.9	29.6
	8H	23.4	23.9	24.0	24.6	25.3	28.4	29.0	29.1	29.7	30.4
	12H	23.4	23.9	24.1	24.6	25.4	29.3	29.8	30.0	30.5	31.3
12H	4H	23.0	23.7	23.6	24.3	25.0	26.1	26.8	26.7	27.5	28.2
	6H	23.5	24.1	24.2	24.7	25.5	27.6	28.2	28.3	28.8	29.6
	8H	23.7	24.2	24.4	24.9	25.7	28.5	29.0	29.1	29.7	30.4

Maximum UGR = 31.3

POLAR GRAPH



Maximum Candela = 2032.604 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.)