



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] 24 JAN 2025

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 45 INCH LONG, LENSED 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	3173
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	161
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	11427	9220	8718
55	9688	7729	7812
65	7607	6605	7096
75	5239	5399	6296
85	2341	4580	5519

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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	1070.590	1070.590	1070.590	1070.590	1070.590
5	1079.798	1066.228	1065.743	1063.320	1050.719
10	1061.381	1049.265	1050.234	1047.326	1035.695
15	1031.818	1020.186	1023.094	1020.186	1010.493
20	982.384	973.660	982.384	978.022	967.844
25	921.318	917.925	925.680	925.195	910.171
30	853.952	855.405	864.129	864.129	845.713
35	771.561	783.193	787.555	789.009	770.107
40	681.901	699.349	695.471	703.226	693.533
45	594.180	609.688	608.719	622.774	620.351
50	504.520	518.574	529.721	553.469	558.316
55	412.436	429.884	454.601	489.980	505.974
60	325.684	347.009	389.173	432.792	453.631
65	242.325	276.250	329.077	378.996	400.320
70	166.235	210.822	267.526	321.807	347.009
75	105.653	148.303	212.276	266.557	291.759
80	57.673	98.868	166.719	216.153	239.417
85	18.417	60.581	126.493	170.596	192.406
90	0.000	39.257	96.445	137.640	152.664
95	0.000	35.864	90.145	126.009	134.732
100	0.000	33.925	83.844	114.862	122.616
105	0.000	31.018	78.513	106.138	113.893
110	0.000	29.079	73.182	99.353	107.107
115	0.000	26.656	66.882	93.053	100.322
120	0.000	22.779	60.096	84.329	93.053
125	0.000	18.901	54.281	77.059	84.814
130	0.000	15.509	47.011	68.820	74.151
135	0.000	14.055	37.803	59.612	64.943
140	0.000	11.632	29.564	49.919	55.250
145	0.000	9.208	22.779	38.772	44.103
150	0.000	6.785	17.447	29.564	33.925
155	0.000	5.331	14.055	21.325	24.717
160	0.000	0.000	10.178	15.509	17.447
165	0.000	0.000	6.785	11.147	12.116
170	0.000	0.000	0.000	6.785	7.270
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	388.65	N.A.	12.20
0-30	812.96	N.A.	25.60
0-40	1301.38	N.A.	41.00
0-60	2186.78	N.A.	68.90
0-80	2730.83	N.A.	86.10
0-90	2860.74	N.A.	90.20
10-90	2759.58	N.A.	87.00
20-40	912.74	N.A.	28.80
20-50	1386.47	N.A.	43.70
40-70	1209.02	N.A.	38.10
60-80	544.05	N.A.	17.10
70-80	220.43	N.A.	6.90
80-90	129.91	N.A.	4.10
90-110	159.85	N.A.	5.00
90-120	218.37	N.A.	6.90
90-130	261.48	N.A.	8.20
90-150	304.26	N.A.	9.60
90-180	312.28	N.A.	9.80
110-180	152.43	N.A.	4.80
0-180	3173.02	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	101.16
10-20	287.49
20-30	424.31
30-40	488.43
40-50	473.74
50-60	411.66
60-70	323.62
70-80	220.43
80-90	129.91
90-100	87.46
100-110	72.39
110-120	58.52
120-130	43.11
130-140	27.94
140-150	14.85
150-160	6.21
160-170	1.71
170-180	0.09

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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

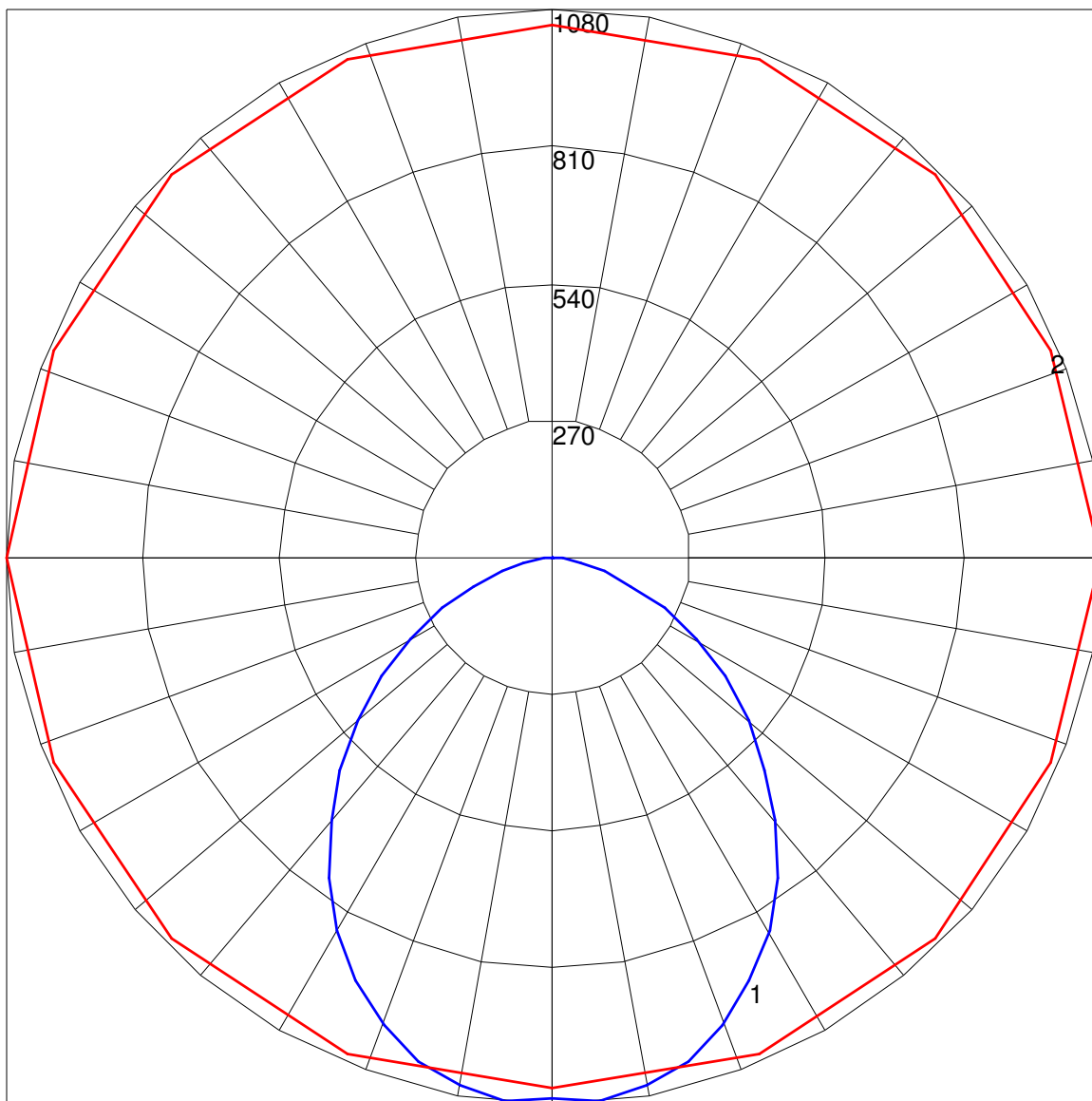
Reflectances

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	17.1	18.5	17.6	19.0	19.6	19.3	20.8	19.9	21.3	21.8
	3H	18.3	19.5	18.8	20.1	20.6	21.7	23.0	22.3	23.5	24.1
	4H	18.6	19.8	19.1	20.3	20.9	22.9	24.1	23.4	24.6	25.2
	6H	18.7	19.9	19.3	20.4	21.0	24.0	25.1	24.6	25.7	26.3
	8H	18.7	19.8	19.3	20.4	21.0	24.6	25.7	25.2	26.2	26.9
	12H	18.7	19.8	19.3	20.3	21.0	25.2	26.2	25.8	26.8	27.5
4H	2H	17.9	19.1	18.4	19.6	20.3	19.7	20.9	20.2	21.4	22.1
	3H	19.3	20.3	19.9	20.9	21.6	22.3	23.3	22.9	23.9	24.5
	4H	19.8	20.7	20.3	21.3	21.9	23.6	24.5	24.2	25.1	25.8
	6H	20.0	20.8	20.6	21.5	22.1	24.9	25.7	25.5	26.3	27.0
	8H	20.1	20.8	20.7	21.5	22.1	25.6	26.4	26.2	27.0	27.7
	12H	20.1	20.8	20.7	21.4	22.1	26.3	27.0	26.9	27.7	28.4
8H	4H	20.4	21.2	21.0	21.8	22.5	23.7	24.5	24.3	25.1	25.8
	6H	20.8	21.5	21.5	22.1	22.8	25.2	25.9	25.9	26.5	27.2
	8H	21.0	21.5	21.6	22.2	22.9	26.0	26.6	26.7	27.3	28.0
	12H	21.0	21.5	21.7	22.2	23.0	26.9	27.4	27.6	28.1	28.9
12H	4H	20.6	21.3	21.2	21.9	22.6	23.7	24.4	24.3	25.1	25.8
	6H	21.1	21.7	21.8	22.3	23.1	25.2	25.8	25.9	26.4	27.2
	8H	21.3	21.8	22.0	22.5	23.3	26.1	26.6	26.7	27.3	28.0

Maximum UGR = 28.9

POLAR GRAPH



Maximum Candela = 1079.798 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.)