



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75S-2-L32-840-(L30)-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] BALLABS TEST NO. 19745.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 01-11-2024

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 22.5 INCH LED STRIP LUMINAIRE

[MORE] WHITE REFLECTOR w/FROSTED ACRYLIC SQUARE LENS

[LUMCAT] 75S-2-L32-840-(L30)-DIM-UNV

[LAMPCAT] HLM LED BOARD

[_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	3105
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	146
Total Luminaire Watts	21.2
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)	1.88 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	21713	17685	16921
55	18249	14773	15162
65	14130	12564	13773
75	9453	10199	12219
85	3786	8545	10712

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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	1047.647	1047.647	1047.647	1047.647	1047.647
5	1056.658	1043.379	1042.904	1040.533	1028.202
10	1038.636	1026.779	1027.728	1024.882	1013.500
15	1009.706	998.324	1001.169	998.324	988.838
20	961.331	952.794	961.331	957.063	947.103
25	901.574	898.254	905.842	905.368	890.666
30	835.651	837.074	845.611	845.611	827.589
35	755.027	766.409	770.677	772.100	753.604
40	667.288	684.362	680.567	688.156	678.670
45	581.446	596.623	595.674	609.428	607.057
50	493.708	507.461	518.369	541.608	546.351
55	403.598	420.671	444.859	479.480	495.131
60	318.705	339.572	380.833	423.517	443.910
65	237.132	270.330	322.025	370.874	391.741
70	162.672	206.304	261.793	314.911	339.572
75	103.389	145.124	207.727	260.845	285.506
80	56.437	96.750	163.146	211.521	234.286
85	18.022	59.283	123.783	166.941	188.282
90	0.000	38.415	94.378	134.691	149.393
95	0.000	35.095	88.213	123.308	131.845
100	0.000	33.198	82.048	112.400	119.989
105	0.000	30.353	76.831	103.864	111.452
110	0.000	28.456	71.614	97.224	104.812
115	0.000	26.084	65.448	91.058	98.172
120	0.000	22.290	58.809	82.522	91.058
125	0.000	18.496	53.117	75.408	82.996
130	0.000	15.176	46.004	67.345	72.562
135	0.000	13.754	36.993	58.334	63.551
140	0.000	11.382	28.930	48.849	54.066
145	0.000	9.011	22.290	37.941	43.158
150	0.000	6.640	17.073	28.930	33.198
155	0.000	5.217	13.754	20.868	24.187
160	0.000	0.000	9.960	15.176	17.073
165	0.000	0.000	6.640	10.908	11.857
170	0.000	0.000	0.000	6.640	7.114
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	380.32	N.A.	12.20
0-30	795.53	N.A.	25.60
0-40	1273.49	N.A.	41.00
0-60	2139.92	N.A.	68.90
0-80	2672.31	N.A.	86.10
0-90	2799.43	N.A.	90.20
10-90	2700.44	N.A.	87.00
20-40	893.18	N.A.	28.80
20-50	1356.76	N.A.	43.70
40-70	1183.11	N.A.	38.10
60-80	532.39	N.A.	17.10
70-80	215.70	N.A.	6.90
80-90	127.12	N.A.	4.10
90-110	156.42	N.A.	5.00
90-120	213.69	N.A.	6.90
90-130	255.87	N.A.	8.20
90-150	297.74	N.A.	9.60
90-180	305.59	N.A.	9.80
110-180	149.16	N.A.	4.80
0-180	3105.02	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	98.99
10-20	281.33
20-30	415.22
30-40	477.96
40-50	463.58
50-60	402.84
60-70	316.69
70-80	215.70
80-90	127.12
90-100	85.59
100-110	70.84
110-120	57.26
120-130	42.19
130-140	27.34
140-150	14.53
150-160	6.08
160-170	1.68
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

X=2H	Y=2H	19.3	20.8	19.9	21.3	21.8	21.5	22.9	22.0	23.5	24.0
	3H	20.5	21.8	21.0	22.3	22.9	23.9	25.2	24.4	25.7	26.3
	4H	20.8	22.0	21.4	22.6	23.2	25.0	26.2	25.5	26.7	27.4
	6H	21.0	22.1	21.6	22.7	23.3	26.1	27.2	26.7	27.8	28.4
	8H	21.0	22.1	21.6	22.7	23.3	26.6	27.7	27.2	28.3	28.9
	12H	21.0	22.0	21.6	22.6	23.3	27.2	28.3	27.8	28.8	29.5

UGR Viewed Endwise

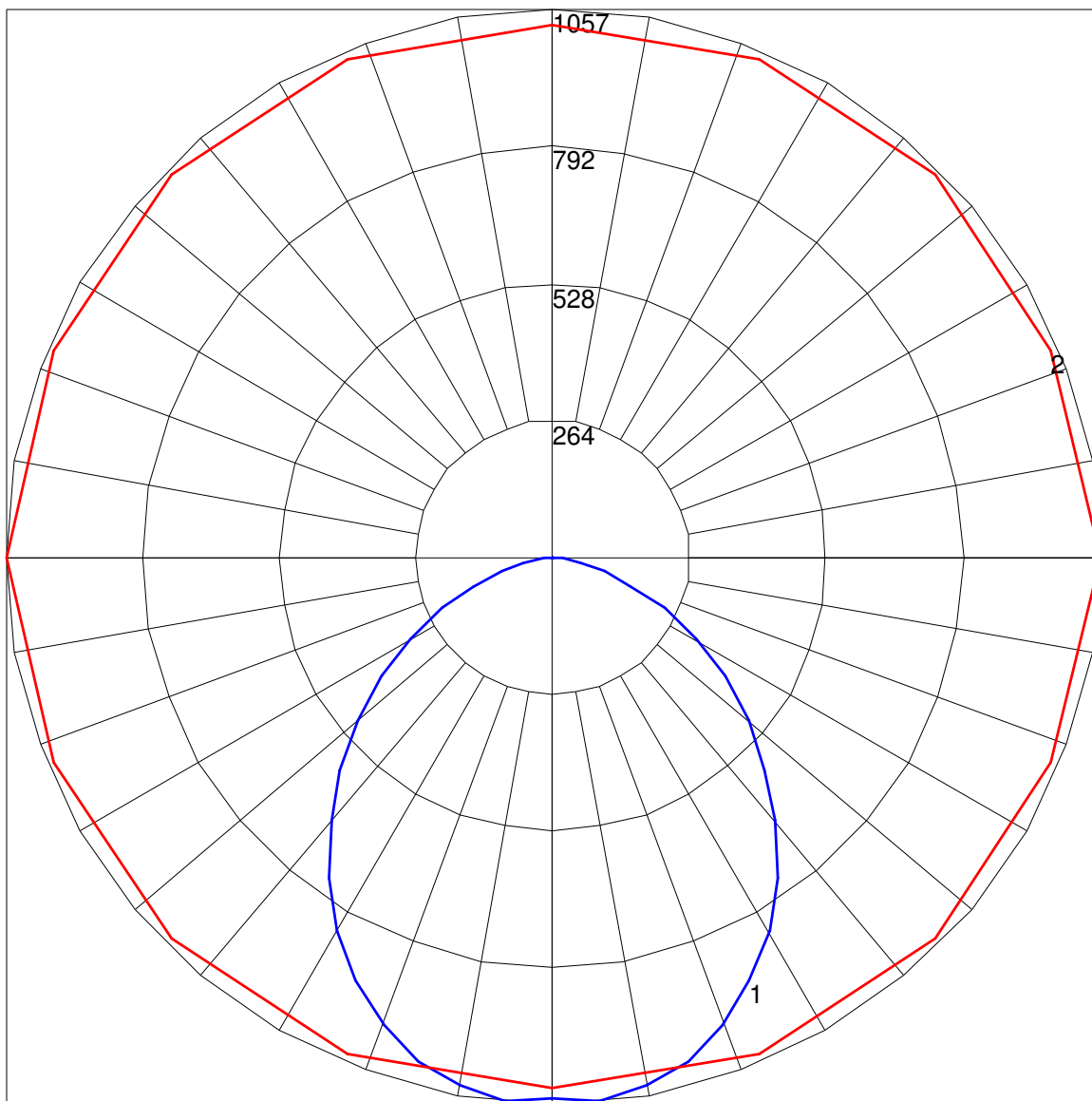
4H	2H	20.1	21.4	20.7	21.9	22.5	21.9	23.1	22.4	23.6	24.2
	3H	21.6	22.6	22.1	23.2	23.8	24.5	25.5	25.0	26.1	26.7
	4H	22.0	22.9	22.6	23.5	24.2	25.7	26.7	26.3	27.3	27.9
	6H	22.3	23.1	22.9	23.7	24.4	27.0	27.8	27.6	28.4	29.1
	8H	22.3	23.1	22.9	23.7	24.4	27.7	28.4	28.3	29.0	29.7
	12H	22.3	23.0	23.0	23.7	24.4	28.3	29.0	29.0	29.7	30.4

8H	4H	22.6	23.4	23.2	24.0	24.7	25.9	26.6	26.5	27.3	27.9
	6H	23.1	23.7	23.7	24.4	25.1	27.3	28.0	28.0	28.6	29.3
	8H	23.2	23.8	23.8	24.4	25.1	28.1	28.7	28.7	29.3	30.0
	12H	23.2	23.8	23.9	24.4	25.2	28.9	29.5	29.6	30.1	30.9

12H	4H	22.8	23.5	23.4	24.1	24.8	25.9	26.6	26.5	27.2	27.9
	6H	23.3	23.9	24.0	24.6	25.3	27.3	27.9	28.0	28.6	29.3
	8H	23.5	24.1	24.2	24.7	25.5	28.2	28.7	28.8	29.3	30.1

Maximum UGR = 30.9

POLAR GRAPH



Maximum Candela = 1056.658 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.)