



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75L-4-L35-8TW-A12125-DIM-UNV 4000K_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from BALLABS TEST NO. 17755.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 23-JUL-2021

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 4' LED SURFACE MOUNT LUMINAIRE

[MORE] WHITE REFLECTOR w/CLEAR PRISMATIC LENS

[LUMCAT] 75L-4-L35-8TW-AF12125-DIM-UNV 4000k

[_SEARCH_SOURCETYPE]LED

[_SEARCH_APPLICATION]INDOOR,COMMERCIAL,INDUSTRIAL,DIRECT,LINEAR,MANUFACTURING,WAREHOUSE

[_SEARCH_MOUNTING]CEILING,SURFACE,SUSPENDED,WALL

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4031
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	118
Total Luminaire Watts	34.2
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.28
Spacing Criterion (90-270)	1.16
Spacing Criterion (Diagonal)	1.22
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.71 ft
Luminous Width (90-270)	0.17 ft
Luminous Height	0.00 ft



LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	26969	20852	16682
55	21594	14614	12215
65	15267	9769	10192
75	11601	7458	9529
85	11894	8818	10048

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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	1941.834	1941.834	1941.834	1941.834	1941.834
5	1974.692	1939.714	1929.114	1921.695	1916.395
10	1949.254	1918.515	1911.095	1902.616	1893.076
15	1911.095	1877.177	1861.277	1870.817	1855.978
20	1849.618	1816.759	1802.980	1808.280	1802.980
25	1760.582	1735.143	1716.064	1694.865	1691.685
30	1663.066	1630.208	1571.910	1525.272	1492.414
35	1535.872	1488.174	1387.478	1267.704	1169.128
40	1348.260	1303.742	1129.910	945.478	877.641
45	1130.970	1103.411	874.461	729.248	699.569
50	924.279	877.641	665.650	570.255	543.756
55	734.547	638.092	497.118	436.701	415.502
60	542.696	436.701	366.744	325.406	324.346
65	382.643	304.207	244.849	245.909	255.449
70	262.868	205.631	164.293	191.851	196.091
75	178.072	140.974	114.475	139.914	146.274
80	125.074	100.696	89.036	97.516	100.696
85	61.477	57.237	45.578	51.938	51.938
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	712.43	N.A.	17.70
0-30	1499.73	N.A.	37.20
0-40	2350.78	N.A.	58.30
0-60	3539.07	N.A.	87.80
0-80	3974.53	N.A.	98.60
0-90	4030.56	N.A.	100.00
10-90	3846.59	N.A.	95.40
20-40	1638.35	N.A.	40.60
20-50	2340.8	N.A.	58.10
40-70	1471.56	N.A.	36.50
60-80	435.46	N.A.	10.80
70-80	152.20	N.A.	3.80
80-90	56.02	N.A.	1.40
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	4030.56	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	183.97
10-20	528.46
20-30	787.30
30-40	851.05
40-50	702.45
50-60	485.84
60-70	283.26
70-80	152.20
80-90	56.02
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

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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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	106	102	99	108	104	101	98	100	97	94	96	94	92	92	91	89	87
2	102	95	89	84	99	93	87	83	89	85	81	86	82	79	83	80	77	75
3	94	85	77	72	92	83	76	71	80	75	70	78	73	69	75	71	68	66
4	87	76	68	62	85	75	68	62	73	66	61	70	65	60	68	63	60	58
5	81	69	61	55	79	68	60	55	66	59	54	64	58	54	62	57	53	51
6	75	63	55	49	73	62	54	49	60	53	48	59	52	48	57	52	47	46
7	70	57	49	44	68	57	49	44	55	48	43	54	48	43	53	47	43	41
8	65	53	45	40	64	52	45	39	51	44	39	50	44	39	49	43	39	37
9	61	49	41	36	60	48	41	36	47	40	36	46	40	36	45	40	35	34
10	58	45	38	33	56	45	38	33	44	37	33	43	37	33	42	37	32	31

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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	21.6	23.1	22.0	23.4	23.7	19.0	20.4	19.3	20.7	21.1
	3H	22.8	24.1	23.1	24.4	24.8	20.5	21.8	20.9	22.1	22.5
	4H	23.2	24.4	23.6	24.8	25.2	21.1	22.3	21.5	22.7	23.1
	6H	23.7	24.8	24.1	25.2	25.5	21.7	22.8	22.1	23.2	23.6
	8H	23.8	24.9	24.3	25.3	25.7	21.9	23.0	22.4	23.4	23.8
	12H	24.0	25.0	24.4	25.4	25.8	22.1	23.2	22.6	23.5	24.0

UGR Viewed Endwise

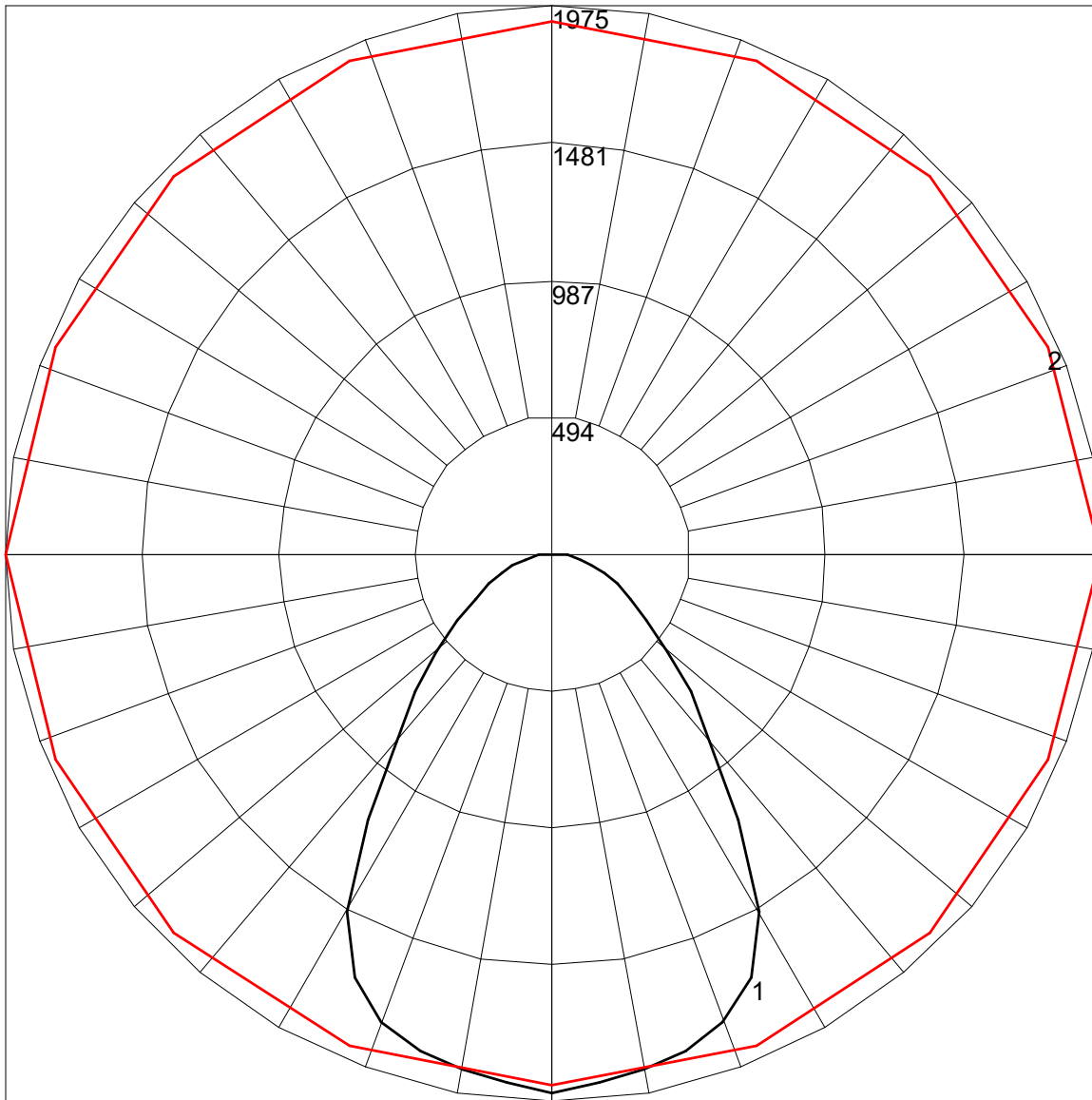
4H	2H	21.7	23.0	22.1	23.3	23.7	19.4	20.7	19.8	21.0	21.4
	3H	23.1	24.1	23.5	24.5	24.9	21.1	22.1	21.5	22.5	22.9
	4H	23.6	24.5	24.0	24.9	25.4	21.9	22.8	22.4	23.3	23.7
	6H	24.2	25.0	24.7	25.5	25.9	22.7	23.5	23.2	23.9	24.4
	8H	24.5	25.2	24.9	25.7	26.1	23.0	23.7	23.4	24.2	24.6
	12H	24.7	25.4	25.2	25.8	26.3	23.2	23.9	23.7	24.4	24.9

8H	4H	23.7	24.4	24.2	24.9	25.4	22.1	22.9	22.6	23.3	23.8
	6H	24.4	25.0	24.9	25.5	26.0	23.1	23.7	23.6	24.2	24.7
	8H	24.8	25.3	25.3	25.8	26.3	23.5	24.0	24.0	24.5	25.0
	12H	25.1	25.6	25.6	26.1	26.7	23.9	24.3	24.4	24.8	25.4

12H	4H	23.7	24.4	24.2	24.9	25.3	22.2	22.9	22.7	23.3	23.8
	6H	24.5	25.0	25.0	25.5	26.0	23.1	23.7	23.7	24.2	24.7
	8H	24.9	25.4	25.4	25.8	26.4	23.6	24.1	24.1	24.6	25.2

Maximum UGR = 26.7

POLAR GRAPH



Maximum Candela = 1974.692 Located At Horizontal Angle = 0, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (90 - 270)
2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)