



IES INDOOR REPORT
PHOTOMETRIC FILENAME : 75L-4-L50-930-AF12125-DIM-UNV_.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] 05-02-2024
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS INC. - CARTHAGE, MO.
 [LUMINAIRE] 4' LED SURFACE MOUNT LUMINAIRE
 [MORE] WHITE REFLECTOR w/FROSTED PRISMATIC LENS
 [LUMCAT] 75L-4-L50-930-AF12125-DIM-UNV
 [_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	4840
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	115
Total Luminaire Watts	42.2
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	32384	25039	20032
55	25930	17548	14667
65	18332	11731	12238
75	13931	8955	11443
85	14282	10588	12066

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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	2331.770	2331.770	2331.770	2331.770	2331.770
5	2371.226	2329.224	2316.496	2307.586	2301.222
10	2340.679	2303.768	2294.858	2284.676	2273.221
15	2294.858	2254.129	2235.037	2246.492	2228.673
20	2221.036	2181.579	2165.033	2171.397	2165.033
25	2114.121	2083.574	2060.663	2035.207	2031.389
30	1997.023	1957.566	1887.562	1831.559	1792.102
35	1844.287	1787.011	1666.095	1522.269	1403.898
40	1619.002	1565.544	1356.805	1135.338	1053.878
45	1358.078	1324.985	1050.060	875.686	840.048
50	1109.882	1053.878	799.318	684.766	652.946
55	882.050	766.226	596.943	524.394	498.938
60	651.674	524.394	440.389	390.750	389.477
65	459.481	365.294	294.017	295.290	306.745
70	315.654	246.923	197.284	230.377	235.468
75	213.830	169.282	137.462	168.010	175.646
80	150.190	120.916	106.915	117.098	120.916
85	73.822	68.731	54.730	62.367	62.367
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	855.49	N.A.	17.70
0-30	1800.89	N.A.	37.20
0-40	2822.83	N.A.	58.30
0-60	4249.74	N.A.	87.80
0-80	4772.65	N.A.	98.60
0-90	4839.92	N.A.	100.00
10-90	4619.01	N.A.	95.40
20-40	1967.34	N.A.	40.60
20-50	2810.86	N.A.	58.10
40-70	1767.06	N.A.	36.50
60-80	522.91	N.A.	10.80
70-80	182.76	N.A.	3.80
80-90	67.27	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	4839.92	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	220.91
10-20	634.58
20-30	945.40
30-40	1021.94
40-50	843.51
50-60	583.40
60-70	340.15
70-80	182.76
80-90	67.27
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	95	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	33	31

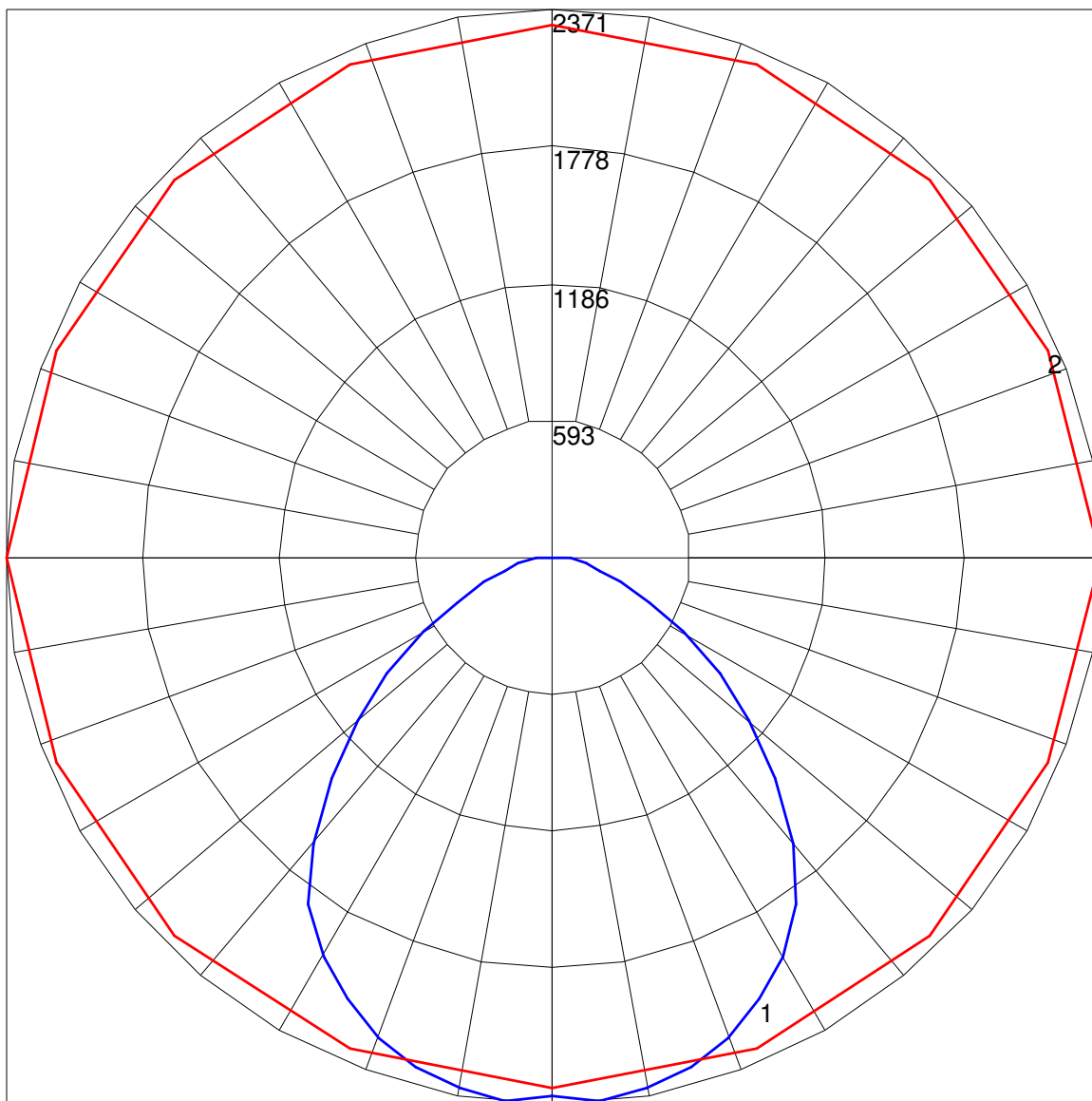
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UGR TABLE - CORRECTED

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					UGR Viewed Endwise				
X=2H	Y=2H	22.3	23.8	22.7	24.1	24.4	19.7	21.1	20.0	21.4	21.8
	3H	23.5	24.8	23.8	25.1	25.5	21.2	22.5	21.6	22.8	23.2
	4H	23.9	25.1	24.3	25.5	25.9	21.8	23.0	22.2	23.4	23.8
	6H	24.4	25.5	24.8	25.9	26.2	22.4	23.5	22.8	23.9	24.3
	8H	24.5	25.6	25.0	26.0	26.4	22.6	23.7	23.1	24.1	24.5
	12H	24.7	25.7	25.1	26.1	26.5	22.8	23.9	23.3	24.2	24.7
4H	2H	22.4	23.7	22.8	24.0	24.4	20.1	21.4	20.5	21.7	22.1
	3H	23.8	24.8	24.2	25.2	25.6	21.8	22.8	22.2	23.2	23.6
	4H	24.3	25.2	24.7	25.6	26.1	22.6	23.5	23.1	24.0	24.4
	6H	24.9	25.7	25.4	26.2	26.6	23.4	24.2	23.9	24.6	25.1
	8H	25.2	25.9	25.6	26.4	26.8	23.7	24.4	24.1	24.9	25.3
	12H	25.4	26.1	25.9	26.5	27.0	23.9	24.6	24.4	25.1	25.6
8H	4H	24.4	25.1	24.9	25.6	26.1	22.8	23.6	23.3	24.0	24.5
	6H	25.1	25.7	25.6	26.2	26.7	23.8	24.4	24.3	24.9	25.4
	8H	25.5	26.0	26.0	26.5	27.0	24.2	24.7	24.7	25.2	25.7
	12H	25.8	26.3	26.3	26.8	27.4	24.6	25.0	25.1	25.5	26.1
12H	4H	24.4	25.1	24.9	25.6	26.0	22.9	23.6	23.4	24.0	24.5
	6H	25.2	25.7	25.7	26.2	26.7	23.8	24.4	24.4	24.9	25.4
	8H	25.6	26.1	26.1	26.5	27.1	24.3	24.8	24.8	25.3	25.9

Maximum UGR = 27.4

POLAR GRAPH



Maximum Candela = 2371.226 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.)