



IES INDOOR REPORT
PHOTOMETRIC FILENAME : 75L-4-L38-840-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] 04-26-2024
 [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-L38-840-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	4664
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	149
Total Luminaire Watts	31.2
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	31210	24131	19305
55	24989	16912	14135
65	17667	11305	11794
75	13425	8631	11028
85	13764	10204	11628

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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	2247.184	2247.184	2247.184	2247.184	2247.184
5	2285.210	2244.731	2232.465	2223.878	2217.745
10	2255.771	2220.199	2211.612	2201.799	2190.759
15	2211.612	2172.360	2153.961	2165.000	2147.827
20	2140.468	2102.442	2086.496	2092.629	2086.496
25	2037.431	2007.992	1985.912	1961.380	1957.700
30	1924.581	1886.555	1819.091	1765.119	1727.094
35	1777.385	1722.187	1605.657	1467.048	1352.972
40	1560.272	1508.754	1307.587	1094.153	1015.649
45	1308.813	1276.921	1011.969	843.921	809.575
50	1069.621	1015.649	770.323	659.926	629.261
55	850.054	738.431	575.289	505.371	480.839
60	628.034	505.371	424.414	376.575	375.348
65	442.813	352.043	283.351	284.578	295.618
70	304.204	237.966	190.127	222.020	226.926
75	206.074	163.142	132.476	161.915	169.275
80	144.742	116.530	103.037	112.850	116.530
85	71.144	66.238	52.745	60.105	60.105
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	824.45	N.A.	17.70
0-30	1735.56	N.A.	37.20
0-40	2720.43	N.A.	58.30
0-60	4095.58	N.A.	87.80
0-80	4599.52	N.A.	98.60
0-90	4664.35	N.A.	100.00
10-90	4451.46	N.A.	95.40
20-40	1895.98	N.A.	40.60
20-50	2708.89	N.A.	58.10
40-70	1702.96	N.A.	36.50
60-80	503.94	N.A.	10.80
70-80	176.13	N.A.	3.80
80-90	64.83	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	4664.35	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	212.90
10-20	611.56
20-30	911.11
30-40	984.87
40-50	812.91
50-60	562.24
60-70	327.81
70-80	176.13
80-90	64.83
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	103	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	64	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

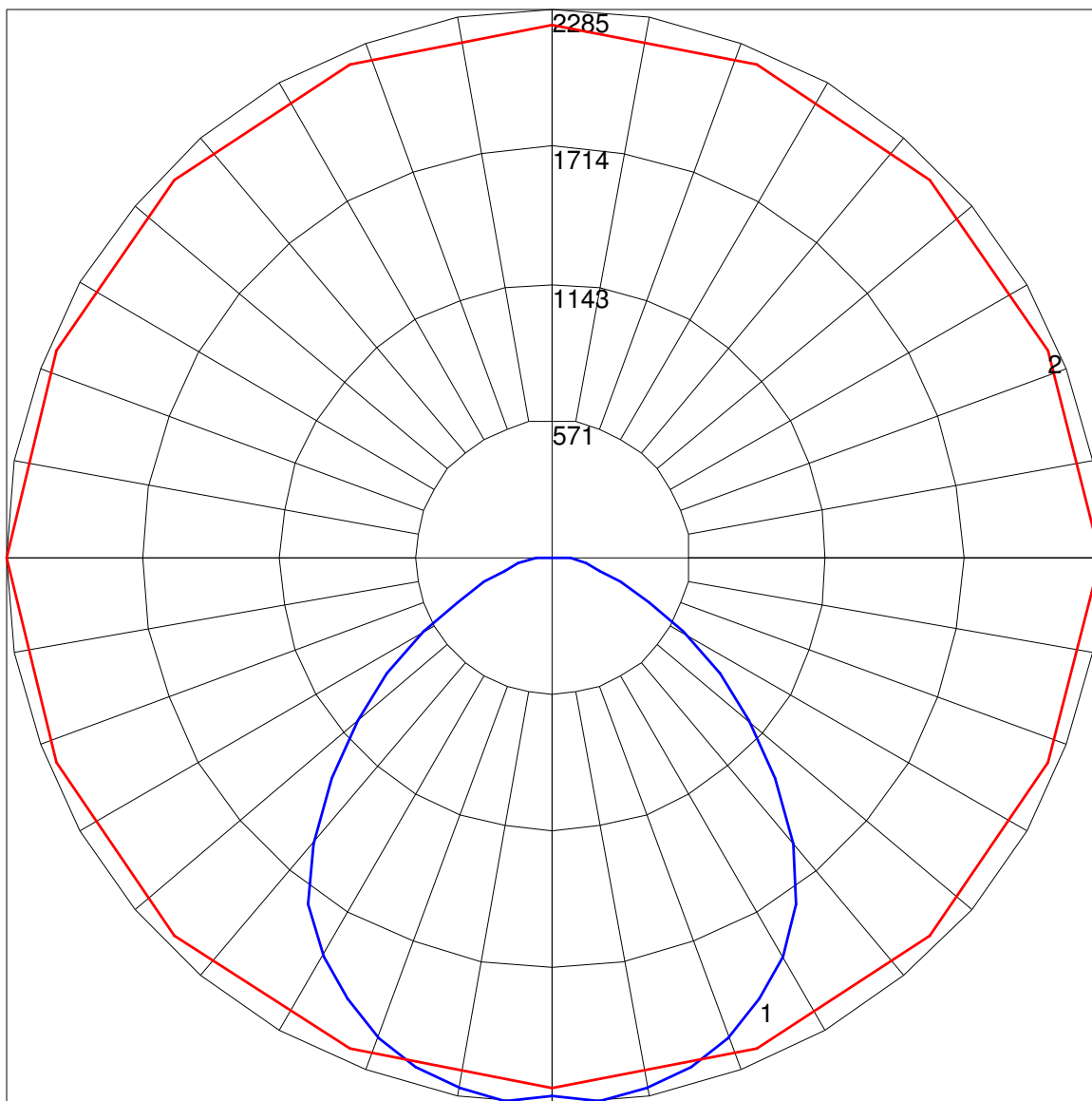
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UGR TABLE - CORRECTED

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	22.2	23.7	22.6	24.0	24.3	19.6	21.0	19.9	21.3	21.7
	3H	23.4	24.7	23.7	25.0	25.4	21.1	22.4	21.5	22.7	23.1
	4H	23.8	25.0	24.2	25.4	25.8	21.7	22.9	22.1	23.3	23.7
	6H	24.3	25.4	24.7	25.8	26.1	22.3	23.4	22.7	23.8	24.2
	8H	24.4	25.5	24.9	25.9	26.3	22.5	23.6	23.0	24.0	24.4
	12H	24.6	25.6	25.0	26.0	26.4	22.7	23.8	23.2	24.1	24.6
4H	2H	22.3	23.6	22.7	23.9	24.3	20.0	21.3	20.4	21.6	22.0
	3H	23.7	24.7	24.1	25.1	25.5	21.7	22.7	22.1	23.1	23.5
	4H	24.2	25.1	24.6	25.5	26.0	22.5	23.4	23.0	23.9	24.3
	6H	24.8	25.6	25.3	26.1	26.5	23.3	24.1	23.8	24.5	25.0
	8H	25.1	25.8	25.5	26.3	26.7	23.6	24.3	24.0	24.8	25.2
	12H	25.3	26.0	25.8	26.4	26.9	23.8	24.5	24.3	25.0	25.5
8H	4H	24.3	25.0	24.8	25.5	26.0	22.7	23.5	23.2	23.9	24.4
	6H	25.0	25.6	25.5	26.1	26.6	23.7	24.3	24.2	24.8	25.3
	8H	25.4	25.9	25.9	26.4	26.9	24.1	24.6	24.6	25.1	25.6
	12H	25.7	26.2	26.2	26.7	27.3	24.5	24.9	25.0	25.4	26.0
12H	4H	24.3	25.0	24.8	25.5	25.9	22.8	23.5	23.3	23.9	24.4
	6H	25.1	25.6	25.6	26.1	26.6	23.7	24.3	24.3	24.8	25.3
	8H	25.5	26.0	26.0	26.4	27.0	24.2	24.7	24.7	25.2	25.8

Maximum UGR = 27.3

POLAR GRAPH



Maximum Candela = 2285.21 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.)