



IES INDOOR REPORT
PHOTOMETRIC FILENAME : 75L-4-L20-840-DMA-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] GEN from BALLABS TEST NO. 17956.0
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
 [ISSUEDATE] 03-16-2022
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS INC. - CARTHAGE, MO.
 [LUMINAIRE] 44" LED STRIP SURFACE MOUNT LUMINAIRE
 [MORE] WHITE REFL w/.104"THK FROSTED ACRYLIC LENS
 [LUMCAT] 75L-4-L20-840-DMA-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	2107
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	130
Total Luminaire Watts	16.2
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.10
Spacing Criterion (Diagonal)	1.24
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.70 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	13572	11926	10359
55	11707	9952	8438
65	9857	8021	6710
75	7744	6103	5139
85	5299	3815	3603

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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	938.336	938.336	938.336	938.336	938.336
5	957.432	936.214	933.032	924.545	917.119
10	939.397	922.954	915.528	908.101	896.962
15	910.754	897.493	885.293	876.806	861.423
20	872.562	859.832	843.919	830.128	812.624
25	823.763	810.502	787.693	771.780	748.441
30	767.537	751.624	721.389	702.824	673.120
35	702.293	684.789	648.189	621.668	594.085
40	628.563	609.998	570.746	537.859	509.216
45	551.120	528.311	484.285	456.703	420.633
50	469.433	449.807	403.660	373.425	345.312
55	385.625	373.425	327.808	298.103	277.947
60	308.182	297.573	258.321	234.451	217.478
65	239.225	226.495	194.669	178.756	162.843
70	175.573	159.660	137.913	124.652	115.104
75	115.104	101.843	90.704	78.504	76.382
80	66.304	55.165	49.330	42.965	44.026
85	26.522	19.096	19.096	15.913	18.035
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	338.06	N.A.	16.00
0-30	700.83	N.A.	33.30
0-40	1107.25	N.A.	52.60
0-60	1783.94	N.A.	84.70
0-80	2082.4	N.A.	98.90
0-90	2106.58	N.A.	100.00
10-90	2018.07	N.A.	95.80
20-40	769.19	N.A.	36.50
20-50	1146.9	N.A.	54.40
40-70	876.01	N.A.	41.60
60-80	298.46	N.A.	14.20
70-80	99.15	N.A.	4.70
80-90	24.18	N.A.	1.10
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	2106.58	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	88.51
10-20	249.55
20-30	362.77
30-40	406.42
40-50	377.72
50-60	298.97
60-70	199.31
70-80	99.15
80-90	24.18
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	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73
3	93	83	75	69	90	81	74	69	78	72	67	76	70	66	73	69	65	63
4	85	74	66	60	83	73	65	59	70	64	58	68	62	58	66	61	57	55
5	79	67	58	52	77	66	58	52	63	56	51	62	55	51	60	54	50	48
6	73	60	52	46	71	59	51	46	58	51	45	56	50	45	54	49	44	43
7	68	55	47	41	66	54	46	41	53	46	40	51	45	40	50	44	40	38
8	63	50	42	37	62	50	42	37	48	41	36	47	41	36	46	40	36	34
9	59	47	39	33	58	46	38	33	45	38	33	44	37	33	43	37	33	31
10	56	43	35	30	55	43	35	30	42	35	30	41	34	30	40	34	30	28

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UGR TABLE - CORRECTED

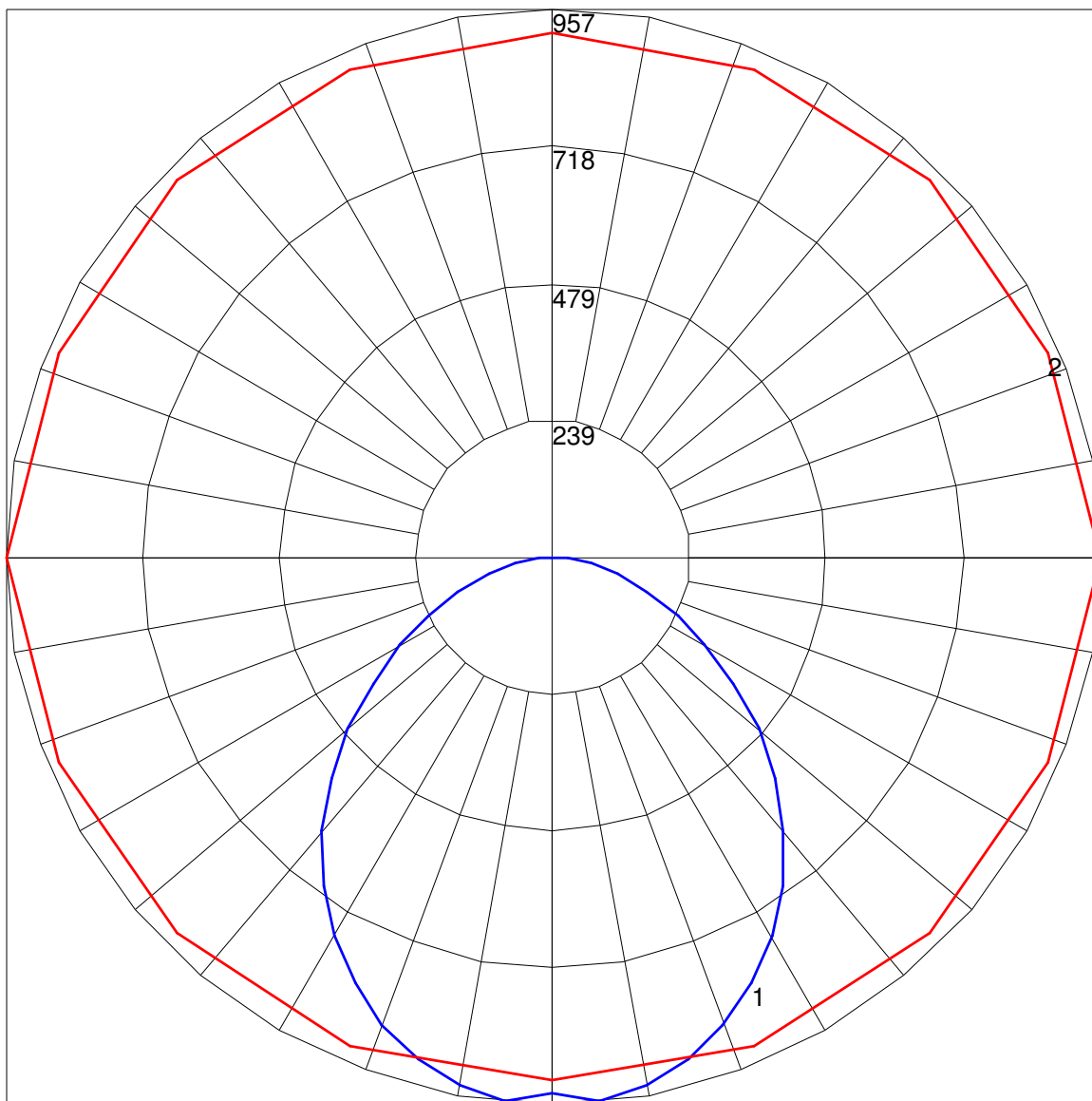
Reflectances

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	20.5	22.0	20.9	22.4	22.7	18.8	20.3	19.1	20.6	20.9
	3H	22.0	23.4	22.4	23.7	24.1	20.1	21.4	20.4	21.8	22.1
	4H	22.5	23.8	22.9	24.1	24.5	20.5	21.8	20.9	22.1	22.5
	6H	22.9	24.1	23.3	24.4	24.8	20.8	22.0	21.2	22.4	22.7
	8H	23.0	24.1	23.4	24.5	24.9	20.9	22.0	21.3	22.4	22.8
	12H	23.0	24.1	23.5	24.5	24.9	20.9	22.0	21.4	22.4	22.8
4H	2H	20.8	22.1	21.2	22.5	22.9	19.4	20.7	19.8	21.0	21.4
	3H	22.5	23.6	22.9	24.0	24.4	20.9	22.0	21.3	22.4	22.8
	4H	23.1	24.1	23.6	24.5	25.0	21.4	22.4	21.8	22.8	23.2
	6H	23.6	24.5	24.1	24.9	25.4	21.8	22.6	22.3	23.1	23.5
	8H	23.8	24.5	24.2	25.0	25.5	21.9	22.7	22.4	23.2	23.6
	12H	23.9	24.6	24.3	25.0	25.5	22.0	22.7	22.5	23.2	23.7
8H	4H	23.3	24.1	23.7	24.5	25.0	21.7	22.5	22.2	22.9	23.4
	6H	23.8	24.5	24.3	25.0	25.4	22.2	22.8	22.7	23.3	23.8
	8H	24.0	24.6	24.5	25.1	25.6	22.3	22.9	22.9	23.4	23.9
	12H	24.2	24.7	24.7	25.2	25.7	22.5	23.0	23.0	23.5	24.0
12H	4H	23.3	24.0	23.8	24.5	24.9	21.7	22.4	22.2	22.9	23.4
	6H	23.8	24.4	24.4	24.9	25.4	22.2	22.8	22.8	23.3	23.8
	8H	24.1	24.6	24.6	25.1	25.6	22.4	22.9	22.9	23.4	24.0

Maximum UGR = 25.7

POLAR GRAPH



Maximum Candela = 957.432 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.)