



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75L-8-L160-840-AF12125-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN FROM BALLABS TEST NO. 17756.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 05/30/2023

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 8' LED STRIP LUMINAIRE

[MORE] WHITE REFLECTOR w/ PRISMATIC LENS

[LUMCAT] 75L-8-L160-840-AF12125-DIM-UNV

[LAMPCAT] HLMX 80 CRI 4000K CCT

[_SEARCH_SOURCE]TYPE]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	19154
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	143
Total Luminaire Watts	133.8
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.26
Spacing Criterion (90-270)	1.14
Spacing Criterion (Diagonal)	1.22
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	7.44 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	65505	48823	37876
55	52514	35139	28542
65	36338	23055	23757
75	29811	19396	24269
85	26104	19578	23267

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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	9208.021	9208.021	9208.021	9208.021	9208.021
5	9366.933	9202.136	9184.479	9116.795	9084.424
10	9260.992	9102.081	9072.653	9028.511	8984.369
15	9069.710	8907.856	8916.684	8887.256	8837.229
20	8790.144	8622.404	8666.546	8631.233	8578.262
25	8392.866	8286.925	8242.783	8101.529	7963.217
30	7851.391	7792.535	7512.969	7133.347	6844.953
35	7209.860	7074.491	6568.330	5817.916	5458.894
40	6459.446	6194.594	5320.582	4408.314	4167.005
45	5511.864	5255.841	4108.149	3351.849	3187.052
50	4496.598	4096.378	3181.167	2619.092	2495.494
55	3584.330	2960.457	2398.382	2068.788	1948.134
60	2645.577	2062.903	1697.996	1609.712	1515.542
65	1827.479	1447.858	1159.463	1221.262	1194.777
70	1283.061	1003.495	788.670	929.925	947.582
75	918.154	735.700	597.388	694.501	747.471
80	629.759	512.047	444.363	485.562	529.704
85	270.738	288.394	203.053	250.138	241.310
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	3388.62	N.A.	17.70
0-30	7136.64	N.A.	37.30
0-40	11144.58	N.A.	58.20
0-60	16757.96	N.A.	87.50
0-80	18880.51	N.A.	98.60
0-90	19153.9	N.A.	100.00
10-90	18280.7	N.A.	95.40
20-40	7755.96	N.A.	40.50
20-50	11067.56	N.A.	57.80
40-70	6971.68	N.A.	36.40
60-80	2122.55	N.A.	11.10
70-80	764.25	N.A.	4.00
80-90	273.39	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	19153.9	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	873.20
10-20	2515.42
20-30	3748.02
30-40	4007.94
40-50	3311.6
50-60	2301.77
60-70	1358.3
70-80	764.25
80-90	273.39
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	100	97	100	97	94	96	94	92	92	90	89	87
2	102	94	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	74	70	77	73	69	75	71	67	65
4	87	76	68	62	85	75	67	62	72	66	61	70	65	60	68	63	59	57
5	81	69	61	55	79	68	60	55	66	59	54	64	58	53	62	57	53	51
6	75	63	55	49	73	62	54	49	60	53	48	58	52	48	57	52	47	45
7	70	57	49	44	68	57	49	44	55	48	43	54	48	43	52	47	43	41
8	65	53	45	40	64	52	45	39	51	44	39	50	43	39	49	43	39	37
9	61	49	41	36	60	48	41	36	47	40	36	46	40	36	45	39	35	34
10	58	45	38	33	56	45	38	33	44	37	33	43	37	33	42	36	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	24.6	26.1	25.0	26.4	26.7	22.1	23.6	22.5	23.9	24.2
	3H	25.8	27.2	26.2	27.5	27.8	23.6	25.0	24.0	25.3	25.6
	4H	26.4	27.6	26.8	27.9	28.3	24.4	25.6	24.8	25.9	26.3
	6H	26.9	28.0	27.3	28.4	28.8	25.0	26.1	25.4	26.5	26.9
	8H	27.1	28.1	27.5	28.5	28.9	25.3	26.3	25.7	26.7	27.1
	12H	27.2	28.2	27.6	28.6	29.0	25.4	26.5	25.9	26.9	27.3

UGR Viewed Endwise

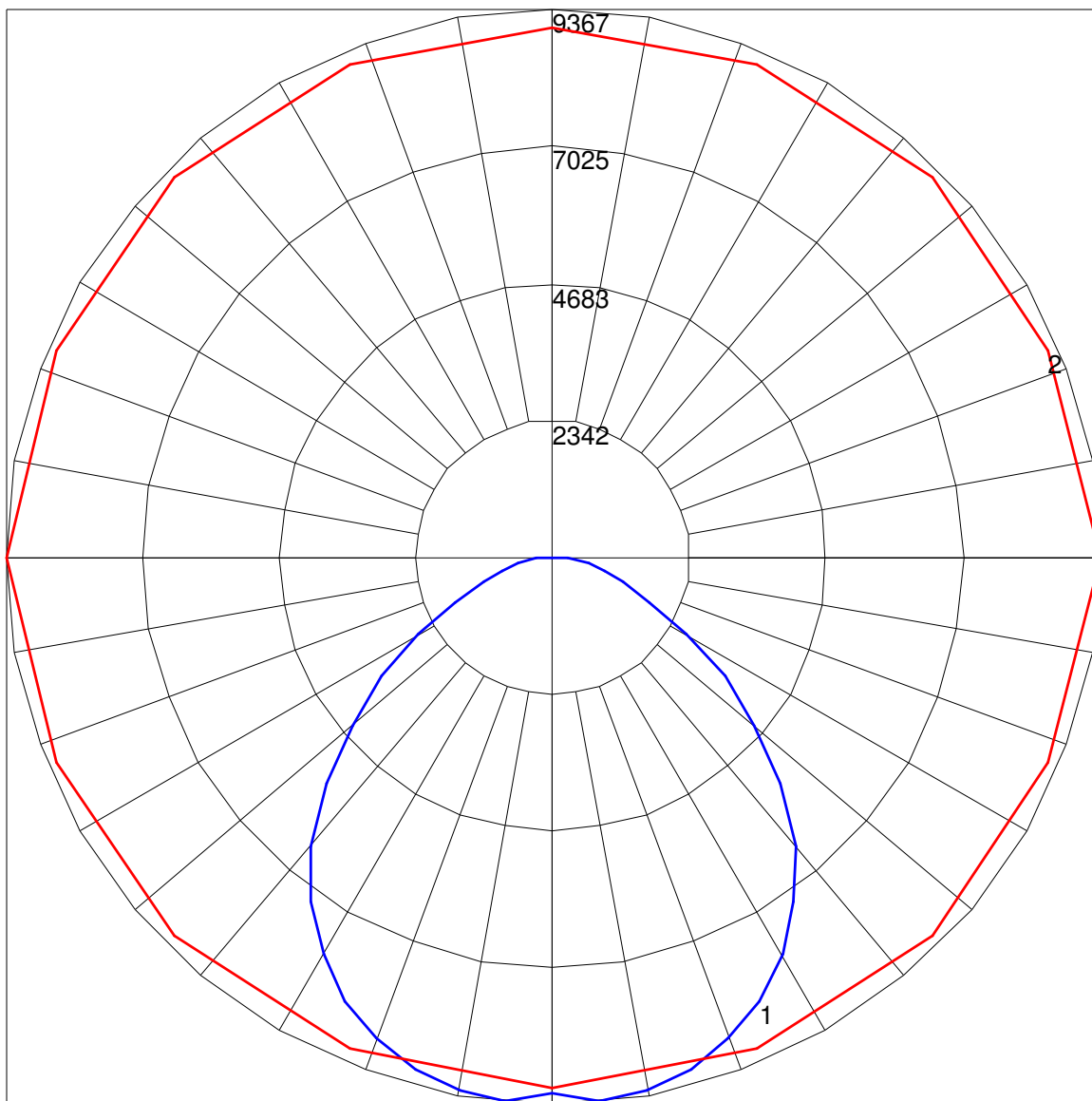
4H	2H	24.8	26.0	25.2	26.3	26.7	22.6	23.8	23.0	24.1	24.5
	3H	26.2	27.2	26.6	27.6	28.0	24.3	25.3	24.7	25.7	26.1
	4H	26.8	27.7	27.2	28.1	28.6	25.2	26.1	25.6	26.5	26.9
	6H	27.5	28.3	27.9	28.7	29.2	26.0	26.8	26.4	27.2	27.7
	8H	27.7	28.5	28.2	28.9	29.4	26.3	27.1	26.8	27.5	28.0
	12H	28.0	28.6	28.4	29.1	29.6	26.6	27.2	27.0	27.7	28.2

8H	4H	26.9	27.7	27.4	28.1	28.6	25.4	26.2	25.9	26.6	27.1
	6H	27.7	28.3	28.2	28.8	29.3	26.4	27.0	26.9	27.5	28.0
	8H	28.1	28.6	28.6	29.1	29.6	26.8	27.4	27.3	27.9	28.4
	12H	28.4	28.9	28.9	29.4	30.0	27.2	27.7	27.7	28.2	28.7

12H	4H	26.9	27.6	27.4	28.1	28.5	25.5	26.1	25.9	26.6	27.1
	6H	27.8	28.3	28.3	28.8	29.3	26.5	27.0	27.0	27.5	28.0
	8H	28.2	28.7	28.7	29.1	29.7	27.0	27.4	27.5	27.9	28.5

Maximum UGR = 30.0

POLAR GRAPH



Maximum Candela = 9366.933 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.)