



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 76-8-L106-850-DRV-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] GEN FROM BALLABS TEST NO. 18634.0
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
 [ISSUE DATE] 02-FEB-2020
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO
 [LUMINAIRE] 8' LED STRIP LUMINAIRE
 [MORE] LED ARRAYS ON WHITE REFLECTOR
 [LUMCAT] 76-8-L106-850-DRV-UNV
 [LAMPCAT] HLM 80 CRI 5000K CCT
 [SEARCH_SOURCETYPE] LED
 [SEARCH_APPLICATION] INDOOR, COMMERCIAL, INDUSTRIAL, DIRECT, LINEAR
 [SEARCH_APPLICATION] MANUFACTURING, WAREHOUSE
 [SEARCH_MOUNTING] CEILING, SURFACE, SUSPENDED

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	10975
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	164
Total Luminaire Watts	67.1
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.28
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.42
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	8.00 ft
Luminous Width (90-270)	0.38 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	13476	13381	13360
55	12802	12645	12567
65	12148	11989	11512
75	10062	9341	9341
85	6593	6079	6079

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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	3782.449	3782.449	3782.449	3782.449	3782.449
5	3794.939	3794.939	3790.776	3790.776	3790.776
10	3740.815	3736.652	3736.652	3736.652	3732.488
15	3634.648	3634.648	3630.485	3628.403	3628.403
20	3580.524	3572.197	3570.116	3557.625	3561.789
25	3376.518	3374.436	3366.109	3364.027	3364.027
30	3203.736	3199.573	3193.328	3185.001	3182.919
35	3049.691	3045.527	3037.200	3028.874	3022.629
40	2820.704	2814.459	2808.213	2799.887	2799.887
45	2658.331	2656.249	2639.596	2637.514	2635.432
50	2339.831	2333.586	2327.341	2316.932	2314.850
55	2048.393	2040.066	2023.412	2015.086	2010.922
60	1713.239	1702.831	1692.422	1682.014	1667.442
65	1432.210	1425.965	1413.474	1384.331	1357.268
70	1092.893	1082.484	1061.667	1024.196	1013.788
75	726.513	720.268	674.471	657.817	674.471
80	420.503	408.013	378.869	366.379	387.196
85	160.291	149.882	147.801	141.556	147.801
90	8.327	14.572	33.307	37.471	37.471

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1390.25	N.A.	12.70
0-30	2948.13	N.A.	26.90
0-40	4840.72	N.A.	44.10
0-60	8661.17	N.A.	78.90
0-80	10780.93	N.A.	98.20
0-90	10975.03	N.A.	100.00
10-90	10615.14	N.A.	96.70
20-40	3450.47	N.A.	31.40
20-50	5464.72	N.A.	49.80
40-70	5196.12	N.A.	47.30
60-80	2119.76	N.A.	19.30
70-80	744.09	N.A.	6.80
80-90	194.10	N.A.	1.80
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	10975.03	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	359.89
10-20	1030.36
20-30	1557.88
30-40	1892.59
40-50	2014.25
50-60	1806.19
60-70	1375.67
70-80	744.09
80-90	194.10
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	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61	58
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50
5	76	63	54	47	73	62	53	47	59	52	46	57	51	46	56	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	37
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33
8	60	47	38	32	59	46	38	32	44	37	32	43	36	32	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

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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	21.0	22.7	21.4	23.0	23.3	20.9	22.6	21.3	22.9	23.2
	3H	22.9	24.4	23.3	24.7	25.1	22.7	24.2	23.0	24.5	24.8
	4H	23.5	24.9	23.9	25.3	25.7	23.2	24.7	23.6	25.0	25.4
	6H	24.0	25.3	24.4	25.6	26.0	23.6	25.0	24.1	25.3	25.7
	8H	24.1	25.3	24.5	25.7	26.1	23.8	25.0	24.2	25.4	25.8
	12H	24.2	25.4	24.6	25.8	26.2	23.8	25.0	24.3	25.4	25.8

UGR Viewed Endwise

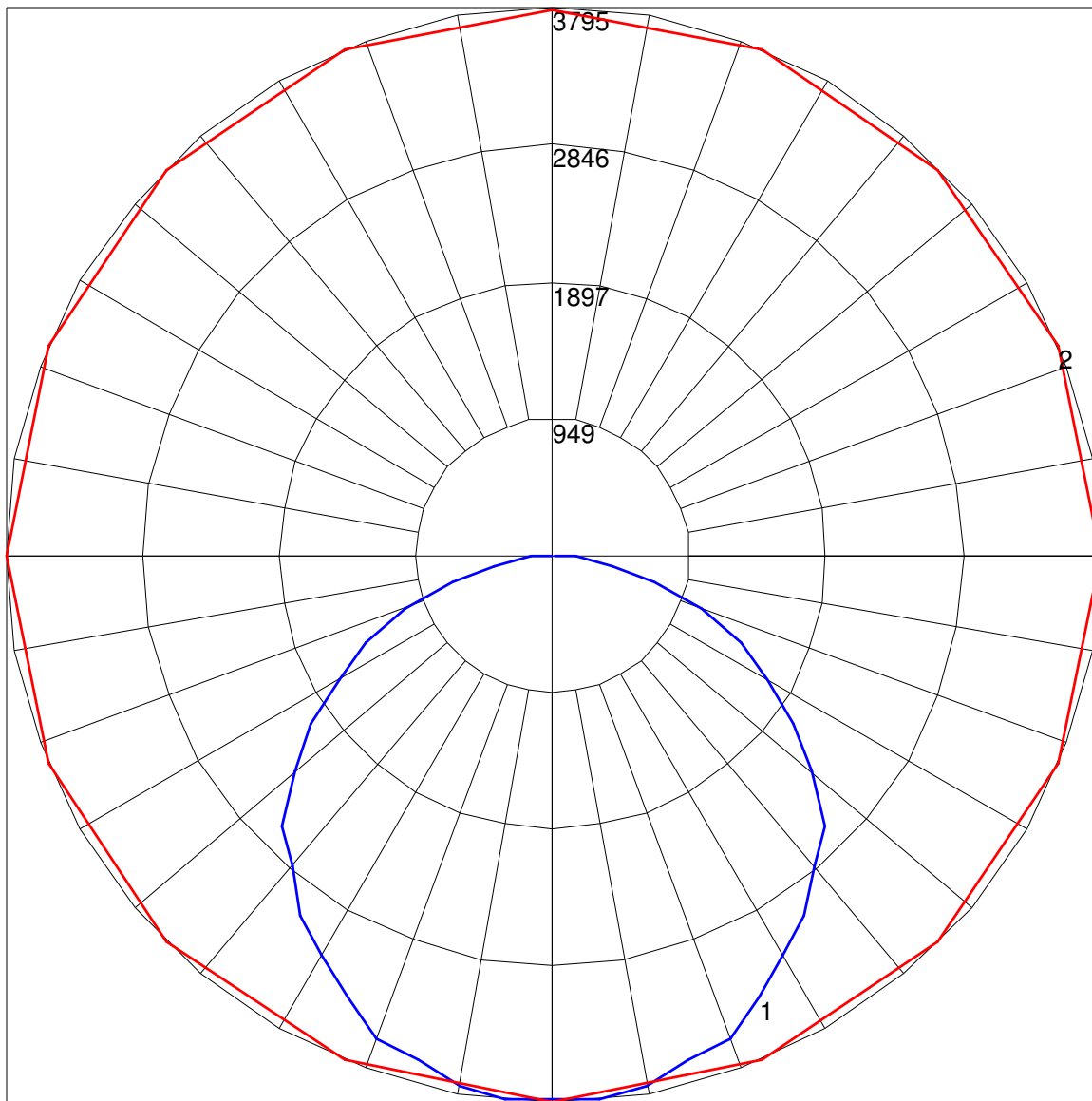
4H	2H	21.7	23.1	22.1	23.4	23.8	21.6	23.0	22.0	23.4	23.7
	3H	23.7	24.9	24.1	25.3	25.7	23.5	24.7	23.9	25.1	25.5
	4H	24.5	25.6	24.9	26.0	26.4	24.2	25.3	24.7	25.7	26.1
	6H	25.1	26.0	25.5	26.4	26.9	24.7	25.7	25.2	26.1	26.5
	8H	25.2	26.1	25.7	26.5	27.0	24.9	25.7	25.3	26.2	26.7
	12H	25.3	26.1	25.8	26.6	27.1	25.0	25.8	25.5	26.2	26.7

8H	4H	24.7	25.6	25.2	26.1	26.5	24.5	25.4	25.0	25.8	26.3
	6H	25.4	26.1	25.9	26.6	27.1	25.1	25.8	25.6	26.3	26.8
	8H	25.6	26.3	26.2	26.8	27.3	25.3	26.0	25.8	26.5	27.0
	12H	25.8	26.4	26.3	26.9	27.4	25.5	26.0	26.0	26.5	27.1

12H	4H	24.8	25.5	25.2	26.0	26.5	24.5	25.3	25.0	25.8	26.3
	6H	25.4	26.1	26.0	26.6	27.1	25.1	25.8	25.7	26.3	26.8
	8H	25.7	26.3	26.2	26.8	27.3	25.4	26.0	25.9	26.5	27.0

Maximum UGR = 27.4

POLAR GRAPH



Maximum Candela = 3794.939 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.)