



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 76-8-L106-840-DIM-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] 18-NOV-2019
 [MANUFAC] WILLIAMS LINEAR
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO
 [LUMINAIRE] 8' STRIP LUMINAIRE
 [MORE] LED ARRAYS ON WHITE REFLECTOR
 [LUMCAT] 76-8-L106-840-DRV-UNV
 [_SEARCH_SOURCE TYPE] FL
 [_SEARCH_APPLICATION] INDOOR, COMMERCIAL, INDUSTRIAL, DIRECT, LINEAR
 [_SEARCH_APPLICATION] MANUFACTURING, WAREHOUSE
 [_SEARCH_MOUNTING] CEILING, SURFACE, SUSPENDED
 [_SEARCH_CERTIFICATION] DLC

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	10656
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	159
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	13085	12993	12972
55	12430	12278	12202
65	11795	11641	11178
75	9770	9070	9070
85	6401	5902	5902

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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	3672.600	3672.600	3672.600	3672.600	3672.600
5	3684.728	3684.728	3680.685	3680.685	3680.685
10	3632.176	3628.133	3628.133	3628.133	3624.091
15	3529.092	3529.092	3525.050	3523.028	3523.028
20	3476.540	3468.455	3466.434	3454.306	3458.349
25	3278.458	3276.437	3268.352	3266.330	3266.330
30	3110.695	3106.652	3100.588	3092.503	3090.482
35	2961.123	2957.080	2948.995	2940.910	2934.846
40	2738.786	2732.722	2726.658	2718.573	2718.573
45	2581.129	2579.107	2562.937	2560.916	2558.895
50	2271.878	2265.815	2259.751	2249.645	2247.623
55	1988.904	1980.819	1964.649	1956.564	1952.522
60	1663.484	1653.378	1643.271	1633.165	1619.016
65	1390.616	1384.552	1372.425	1344.127	1317.851
70	1061.153	1051.047	1030.834	994.452	984.346
75	705.414	699.350	654.883	638.713	654.883
80	408.291	396.164	367.866	355.739	375.951
85	155.636	145.530	143.508	137.445	143.508
90	8.085	14.149	32.340	36.382	36.382

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1349.88	N.A.	12.70
0-30	2862.51	N.A.	26.90
0-40	4700.14	N.A.	44.10
0-60	8409.63	N.A.	78.90
0-80	10467.83	N.A.	98.20
0-90	10656.29	N.A.	100.00
10-90	10306.86	N.A.	96.70
20-40	3350.26	N.A.	31.40
20-50	5306.02	N.A.	49.80
40-70	5045.21	N.A.	47.30
60-80	2058.2	N.A.	19.30
70-80	722.48	N.A.	6.80
80-90	188.46	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	10656.29	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	349.44
10-20	1000.44
20-30	1512.63
30-40	1837.63
40-50	1955.76
50-60	1753.74
60-70	1335.72
70-80	722.48
80-90	188.46
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	191	191	191	191	186	186	186	186	178	178	178	170	170	170	163	163	163	160
1	174	166	160	153	170	163	156	151	156	151	146	150	145	142	144	140	137	134
2	158	145	134	125	154	142	132	123	136	128	120	131	124	117	126	120	115	111
3	144	127	114	103	140	124	112	102	120	109	101	115	106	99	111	104	97	94
4	132	112	98	87	128	110	97	87	106	95	86	102	92	84	99	90	83	80
5	121	100	86	75	118	98	85	75	95	83	74	92	81	73	89	80	72	69
6	112	90	76	65	109	89	75	65	86	74	64	83	72	64	80	71	63	60
7	103	82	68	58	101	80	67	57	78	66	57	76	65	57	73	64	56	53
8	96	74	61	51	94	73	60	51	71	59	51	69	58	50	67	58	50	47
9	90	68	55	46	88	67	55	46	65	54	46	64	53	45	62	52	45	42
10	84	63	50	42	82	62	50	42	61	49	41	59	49	41	58	48	41	38

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UGR TABLE - CORRECTED

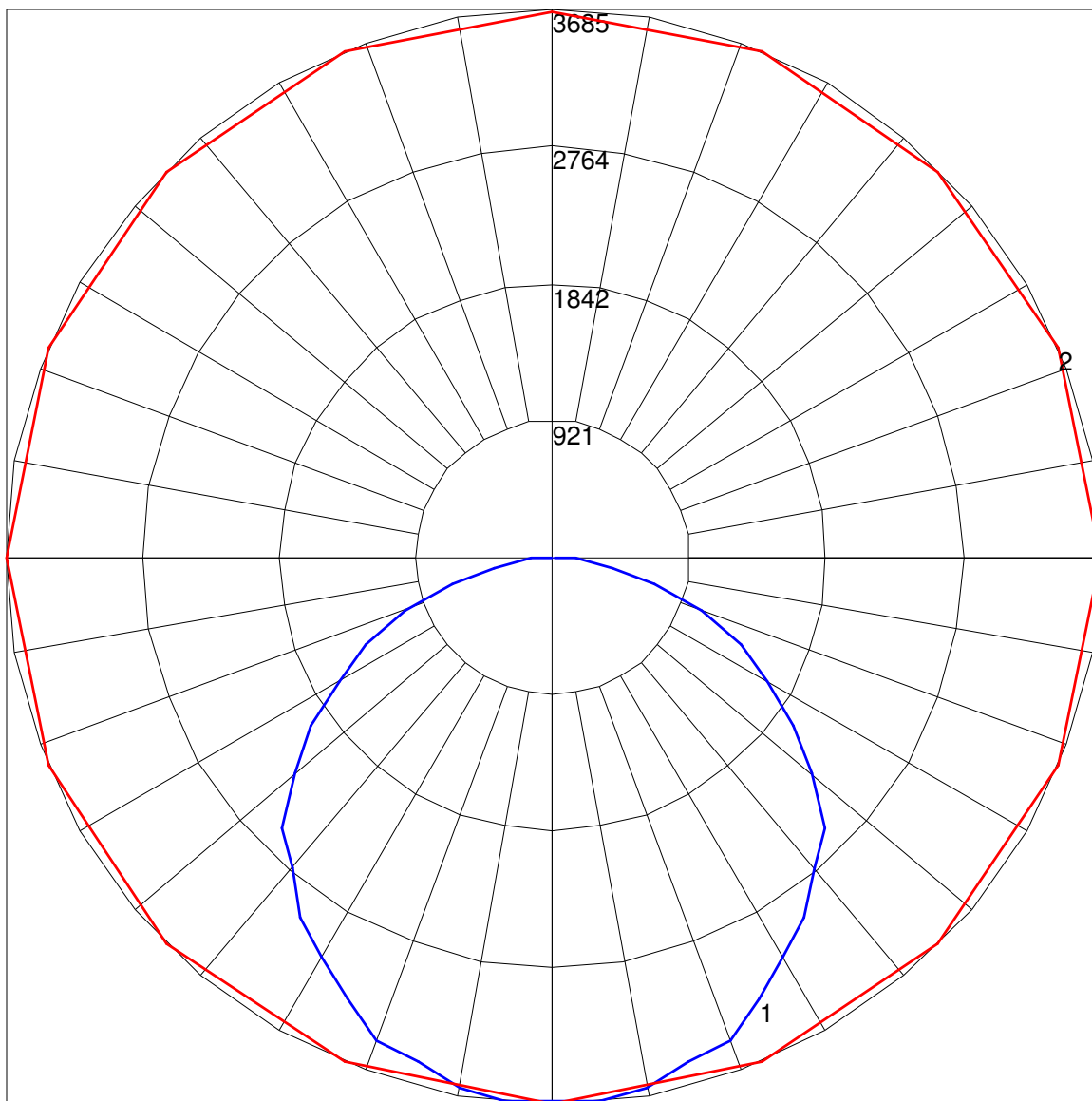
Reflectances

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	19.3	21.0	19.7	21.3	21.6	19.2	20.9	19.6	21.2	21.5
	3H	21.2	22.7	21.6	23.0	23.4	21.0	22.5	21.3	22.8	23.1
	4H	21.8	23.2	22.2	23.6	24.0	21.5	23.0	21.9	23.3	23.7
	6H	22.3	23.6	22.7	23.9	24.3	21.9	23.3	22.4	23.6	24.0
	8H	22.4	23.6	22.8	24.0	24.4	22.1	23.3	22.5	23.7	24.1
	12H	22.5	23.7	22.9	24.1	24.5	22.1	23.3	22.6	23.7	24.1
4H	2H	20.0	21.4	20.4	21.7	22.1	19.9	21.3	20.3	21.7	22.0
	3H	22.0	23.2	22.4	23.6	24.0	21.8	23.0	22.2	23.4	23.8
	4H	22.8	23.9	23.2	24.3	24.7	22.5	23.6	23.0	24.0	24.4
	6H	23.4	24.3	23.8	24.7	25.2	23.0	24.0	23.5	24.4	24.8
	8H	23.5	24.4	24.0	24.8	25.3	23.2	24.0	23.6	24.5	25.0
	12H	23.6	24.4	24.1	24.9	25.4	23.3	24.1	23.8	24.5	25.0
8H	4H	23.0	23.9	23.5	24.4	24.8	22.8	23.7	23.3	24.1	24.6
	6H	23.7	24.4	24.2	24.9	25.4	23.4	24.1	23.9	24.6	25.1
	8H	23.9	24.6	24.5	25.1	25.6	23.6	24.3	24.1	24.8	25.3
	12H	24.1	24.7	24.6	25.2	25.7	23.8	24.3	24.3	24.8	25.4
12H	4H	23.1	23.8	23.5	24.3	24.8	22.8	23.6	23.3	24.1	24.6
	6H	23.7	24.4	24.3	24.9	25.4	23.4	24.1	24.0	24.6	25.1
	8H	24.0	24.6	24.5	25.1	25.6	23.7	24.3	24.2	24.8	25.3

Maximum UGR = 25.7

POLAR GRAPH



Maximum Candela = 3684.728 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.)