



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 76-8-L154-840-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  
 [ISSUEDATE] 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-L154-840-DRV-UNV  
 [\_SEARCH\_SOURCETYPE]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	15513
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	151
Total Luminaire Watts	102.5
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	19049	18915	18885
55	18095	17875	17764
65	17171	16947	16273
75	14223	13204	13204
85	9319	8593	8593

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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	5346.572	5346.572	5346.572	5346.572	5346.572
5	5364.227	5364.227	5358.342	5358.342	5358.342
10	5287.721	5281.836	5281.836	5281.836	5275.951
15	5137.652	5137.652	5131.767	5128.825	5128.825
20	5061.147	5049.376	5046.434	5028.779	5034.664
25	4772.779	4769.836	4758.066	4755.124	4755.124
30	4528.549	4522.664	4513.837	4502.066	4499.124
35	4310.802	4304.917	4293.147	4281.377	4272.549
40	3987.124	3978.297	3969.469	3957.699	3957.699
45	3757.607	3754.665	3731.124	3728.182	3725.239
50	3307.400	3298.573	3289.745	3275.033	3272.090
55	2895.447	2883.677	2860.136	2848.366	2842.481
60	2421.700	2406.987	2392.274	2377.562	2356.964
65	2024.459	2015.631	1997.976	1956.780	1918.528
70	1544.827	1530.114	1500.689	1447.723	1433.011
75	1026.942	1018.114	953.379	929.839	953.379
80	594.390	576.735	535.540	517.885	547.310
85	226.575	211.862	208.919	200.092	208.919
90	11.770	20.598	47.080	52.965	52.965

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1965.15	N.A.	12.70
0-30	4167.24	N.A.	26.90
0-40	6842.46	N.A.	44.10
0-60	12242.74	N.A.	78.90
0-80	15239.07	N.A.	98.20
0-90	15513.43	N.A.	100.00
10-90	15004.72	N.A.	96.70
20-40	4877.31	N.A.	31.40
20-50	7724.5	N.A.	49.80
40-70	7344.82	N.A.	47.30
60-80	2996.33	N.A.	19.30
70-80	1051.79	N.A.	6.80
80-90	274.36	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	15513.43	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	508.71
10-20	1456.44
20-30	2202.09
30-40	2675.22
40-50	2847.19
50-60	2553.09
60-70	1944.54
70-80	1051.79
80-90	274.36
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	277	277	277	277	271	271	271	271	259	259	259	248	248	248	238	238	238	233
1	253	242	232	223	247	237	228	220	227	219	213	218	212	206	209	205	200	195
2	230	211	195	181	224	206	192	179	198	186	175	190	180	171	183	175	167	162
3	210	185	166	150	204	181	163	149	174	159	146	168	155	144	162	151	141	136
4	192	164	143	127	186	160	141	126	155	138	124	149	135	123	144	131	121	116
5	176	146	125	109	171	143	123	109	138	121	107	134	118	106	129	116	105	100
6	163	131	110	95	158	129	109	95	125	107	94	121	105	93	117	103	92	87
7	151	119	98	84	147	117	97	84	113	96	83	110	94	82	107	93	82	77
8	140	108	88	75	136	107	88	74	104	86	74	101	85	74	98	84	73	69
9	131	99	80	67	128	98	80	67	95	78	67	93	77	66	90	76	66	62
10	123	92	73	61	120	90	73	61	88	72	60	86	71	60	84	70	60	56

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**UGR TABLE - CORRECTED**

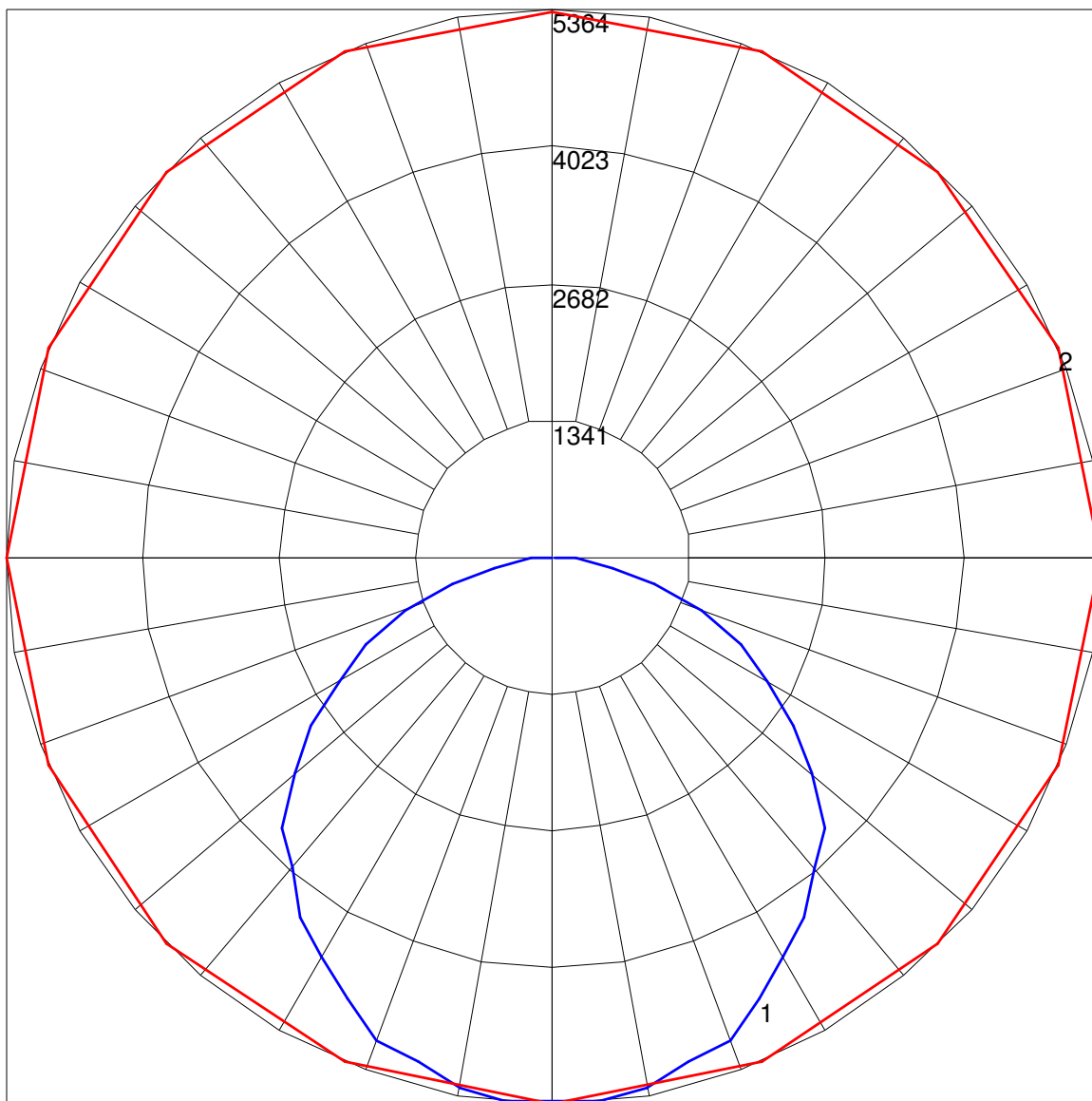
Reflectances

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 = 5364.227 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.)