



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 76-8-L64-840-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-L64-840-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	6657
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	157
Total Luminaire Watts	42.3
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	8174	8117	8104
55	7765	7670	7623
65	7369	7272	6983
75	6103	5666	5666
85	3999	3687	3687

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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	2294.342	2294.342	2294.342	2294.342	2294.342
5	2301.919	2301.919	2299.393	2299.393	2299.393
10	2269.088	2266.563	2266.563	2266.563	2264.037
15	2204.690	2204.690	2202.165	2200.902	2200.902
20	2171.860	2166.809	2165.546	2157.970	2160.495
25	2048.114	2046.851	2041.800	2040.538	2040.538
30	1943.309	1940.784	1936.996	1931.945	1930.682
35	1849.869	1847.343	1842.292	1837.242	1833.453
40	1710.971	1707.183	1703.394	1698.344	1698.344
45	1612.479	1611.217	1601.115	1599.852	1598.590
50	1419.285	1415.497	1411.709	1405.395	1404.132
55	1242.506	1237.455	1227.353	1222.302	1219.777
60	1039.210	1032.896	1026.582	1020.269	1011.430
65	868.744	864.956	857.379	839.701	823.286
70	662.922	656.609	643.982	621.253	614.939
75	440.685	436.897	409.118	399.016	409.118
80	255.067	247.491	229.813	222.237	234.864
85	97.229	90.915	89.652	85.864	89.652
90	5.051	8.839	20.203	22.729	22.729

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	843.29	N.A.	12.70
0-30	1788.26	N.A.	26.90
0-40	2936.26	N.A.	44.10
0-60	5253.65	N.A.	78.90
0-80	6539.45	N.A.	98.20
0-90	6657.19	N.A.	100.00
10-90	6438.89	N.A.	96.70
20-40	2092.97	N.A.	31.40
20-50	3314.77	N.A.	49.80
40-70	3151.84	N.A.	47.30
60-80	1285.8	N.A.	19.30
70-80	451.35	N.A.	6.80
80-90	117.74	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	6657.19	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	218.30
10-20	624.99
20-30	944.97
30-40	1148.00
40-50	1221.8
50-60	1095.59
60-70	834.45
70-80	451.35
80-90	117.74
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	146	146	146	146	143	143	143	143	137	137	137	131	131	131	125	125	125	123
1	134	128	123	118	130	125	120	116	120	116	112	115	112	109	111	108	105	103
2	121	111	103	96	118	109	101	95	105	98	92	101	95	90	97	92	88	86
3	111	98	87	79	108	96	86	79	92	84	77	89	82	76	85	80	75	72
4	101	86	75	67	98	85	74	67	82	73	66	79	71	65	76	69	64	61
5	93	77	66	58	90	76	65	57	73	64	57	71	62	56	68	61	55	53
6	86	69	58	50	83	68	58	50	66	56	50	64	55	49	62	54	49	46
7	79	63	52	44	77	62	51	44	60	51	44	58	50	43	56	49	43	41
8	74	57	47	39	72	56	46	39	55	46	39	53	45	39	52	44	39	36
9	69	52	42	35	67	52	42	35	50	41	35	49	41	35	48	40	35	32
10	65	48	39	32	63	48	38	32	46	38	32	45	37	32	44	37	32	29

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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	23.1	24.5	24.9
	4H	23.5	24.9	23.9	25.3	25.7	23.3	24.7	23.7	25.0	25.4
	6H	24.0	25.3	24.4	25.6	26.0	23.7	25.0	24.1	25.3	25.7
	8H	24.1	25.4	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	23.9	25.0	24.3	25.4	25.9

UGR Viewed Endwise

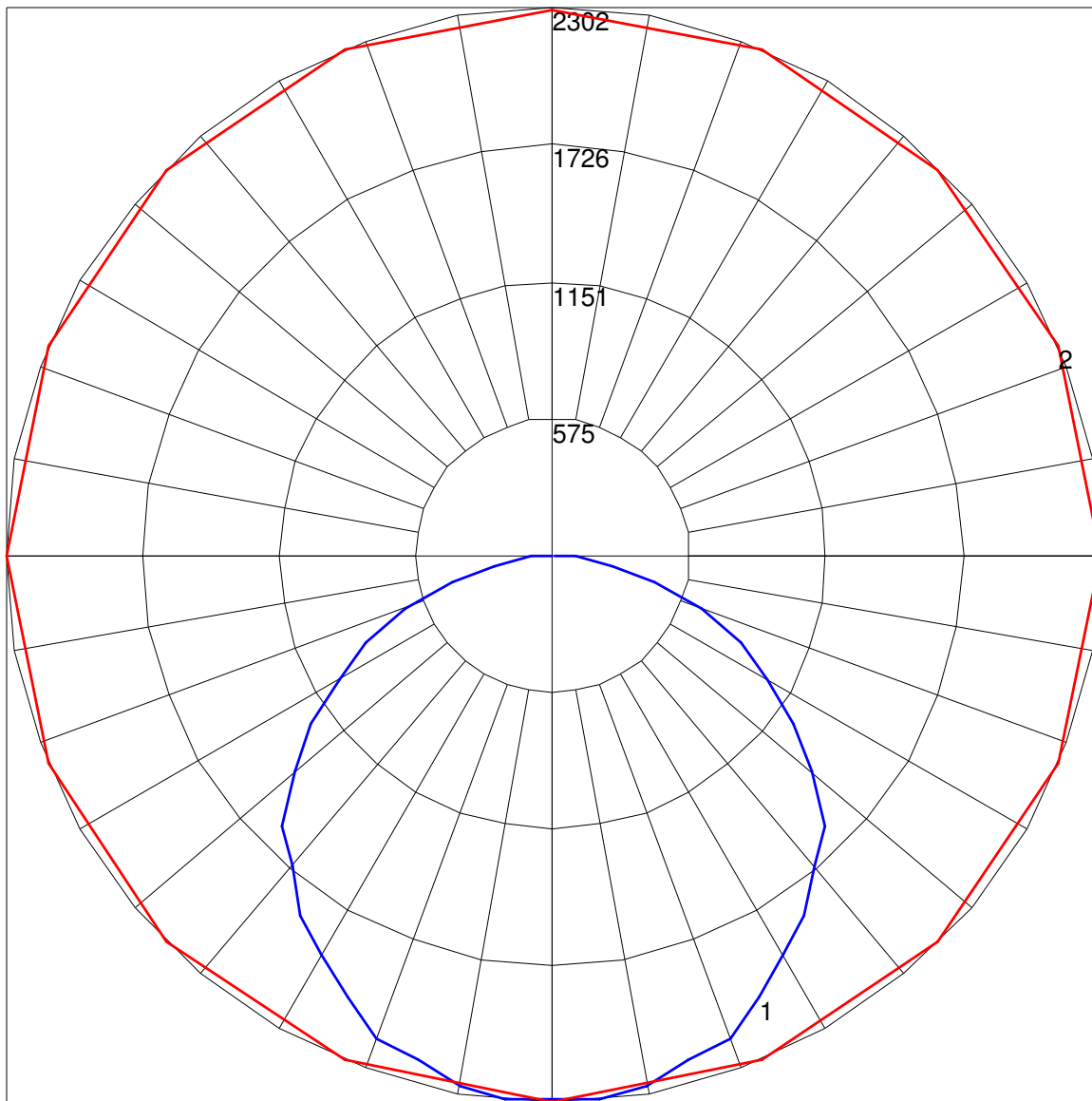
4H	2H	21.7	23.1	22.1	23.4	23.8	21.6	23.0	22.0	23.4	23.7
	3H	23.7	24.9	24.2	25.3	25.7	23.5	24.7	23.9	25.1	25.5
	4H	24.5	25.6	24.9	26.0	26.4	24.2	25.3	24.7	25.7	26.1
	6H	25.1	26.0	25.5	26.4	26.9	24.7	25.7	25.2	26.1	26.6
	8H	25.2	26.1	25.7	26.5	27.0	24.9	25.8	25.3	26.2	26.7
	12H	25.3	26.1	25.8	26.6	27.1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

8H	4H	24.8	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	25.7	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	25.6	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	27.4	25.4	26.0	25.9	26.5	27.0

Maximum UGR = 27.4

POLAR GRAPH



Maximum Candela = 2301.919 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.)