



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 80-8-L106-840-DIM-UNV\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN FROM BALLABS TEST NO. 18635.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 21-SEP-2020

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 32 LED 22" ARRAYS 8' INDUSTRIAL LUMINAIRE

[MORE] WHITE REFLECTOR w/OPEN BOTTOM

[LUMCAT] 80-8-L106-840-DIM-UNV

[LAMPCAT] 80 CRI 4000K CCT

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	10655
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	160
Total Luminaire Watts	66.4
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.26
Spacing Criterion (90-270)	1.22
Spacing Criterion (Diagonal)	1.36
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	8.00 ft
Luminous Width (90-270)	0.88 ft
Luminous Height	0.00 ft



### LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	5779	5639	5624
55	5569	5446	5423
65	5304	5187	2772
75	4265	2369	454
85	1916	838	629

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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>
<b>0</b>	4003.744	4003.744	4003.744	4003.744	4003.744
<b>5</b>	3956.181	3942.592	3930.701	3945.989	3962.976
<b>10</b>	3876.344	3862.755	3923.907	3934.099	3895.030
<b>15</b>	3786.315	3825.385	3782.918	3752.342	3752.342
<b>20</b>	3672.505	3757.438	3636.833	3618.148	3618.148
<b>25</b>	3524.722	3543.407	3483.954	3473.762	3473.762
<b>30</b>	3336.170	3307.293	3285.210	3273.320	3269.922
<b>35</b>	3135.728	3106.851	3081.371	3077.974	3071.179
<b>40</b>	2914.902	2867.340	2853.750	2848.654	2845.257
<b>45</b>	2660.103	2605.746	2595.554	2592.157	2588.759
<b>50</b>	2362.837	2323.768	2311.878	2308.480	2308.480
<b>55</b>	2079.161	2036.695	2033.297	2024.804	2024.804
<b>60</b>	1756.415	1724.141	1720.744	1713.949	1708.853
<b>65</b>	1459.150	1430.273	1426.875	1099.034	762.699
<b>70</b>	1114.322	1088.842	871.413	591.134	603.025
<b>75</b>	718.534	718.534	399.185	344.828	76.440
<b>80</b>	380.500	246.306	69.645	57.754	57.754
<b>85</b>	108.714	57.754	47.563	35.672	35.672
<b>90</b>	0.000	0.000	0.000	0.000	0.000

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1445.26	N.A.	13.60
0-30	3056.26	N.A.	28.70
0-40	4989.96	N.A.	46.80
0-60	8813.55	N.A.	82.70
0-80	10585.42	N.A.	99.30
0-90	10654.76	N.A.	100.00
10-90	10279.05	N.A.	96.50
20-40	3544.71	N.A.	33.30
20-50	5552.00	N.A.	52.10
40-70	5086.99	N.A.	47.70
60-80	1771.87	N.A.	16.60
70-80	508.46	N.A.	4.80
80-90	69.35	N.A.	0.70
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	10654.76	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	375.71
10-20	1069.55
20-30	1611.00
30-40	1933.71
40-50	2007.3
50-60	1816.29
60-70	1263.41
70-80	508.46
80-90	69.35
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	190	190	190	190	186	186	186	186	178	178	178	170	170	170	163	163	163	160
1	175	168	162	156	171	165	159	154	158	153	149	152	148	144	146	143	140	137
2	160	147	137	128	156	144	135	127	139	131	124	134	127	121	129	123	118	115
3	146	130	117	107	142	127	116	106	123	113	104	118	110	102	114	107	101	97
4	134	115	101	91	130	113	100	90	109	98	89	105	96	88	102	94	87	83
5	123	103	89	78	120	101	88	78	98	86	77	95	84	76	92	83	75	72
6	114	93	79	68	111	91	78	68	88	76	68	86	75	67	83	74	66	63
7	105	84	70	60	103	83	70	60	80	68	60	78	67	59	76	66	59	56
8	98	77	63	54	96	76	63	54	73	62	53	71	61	53	70	60	53	50
9	92	70	57	49	89	69	57	48	68	56	48	66	55	48	64	55	48	45
10	86	65	52	44	84	64	52	44	62	51	44	61	51	43	60	50	43	40

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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	16.7	18.3	17.1	18.6	18.9	UGR Viewed Endwise			
	3H	18.6	20.0	19.0	20.4	20.7	16.6	18.2	17.0	18.5
	4H	19.2	20.6	19.6	20.9	21.3	17.3	18.8	17.7	19.1
	6H	19.6	20.8	20.0	21.2	21.6	17.4	18.7	17.8	19.1
	8H	19.6	20.8	20.1	21.2	21.6	17.3	18.6	17.7	18.9
	12H	19.7	20.8	20.1	21.2	21.6	17.3	18.5	17.7	18.9
							17.3	18.4	17.7	18.8

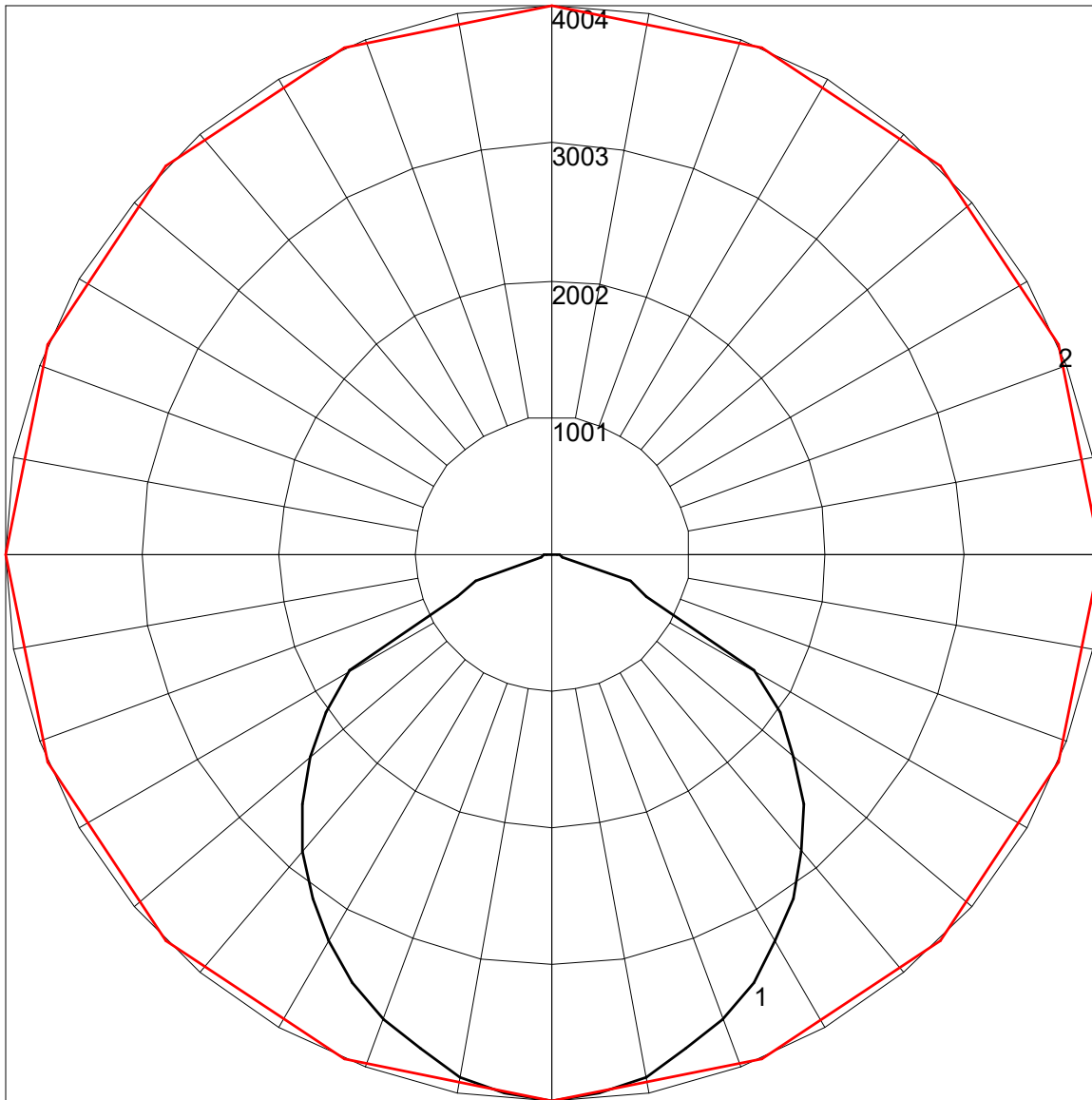
4H	2H	17.4	18.7	17.8	19.1	19.4	17.3	18.7	17.7	19.0
	3H	19.4	20.5	19.8	20.9	21.3	18.1	19.3	18.5	19.7
	4H	20.1	21.1	20.5	21.5	22.0	18.3	19.3	18.7	19.7
	6H	20.5	21.4	20.9	21.8	22.3	18.2	19.1	18.7	19.6
	8H	20.6	21.4	21.1	21.9	22.3	18.2	19.0	18.7	19.5
	12H	20.6	21.4	21.1	21.8	22.3	18.2	18.9	18.7	19.4

8H	4H	20.1	21.0	20.6	21.4	21.9	18.4	19.3	18.9	19.7
	6H	20.6	21.2	21.0	21.7	22.2	18.4	19.1	18.9	19.6
	8H	20.7	21.3	21.2	21.8	22.3	18.4	19.0	18.9	19.5
	12H	20.7	21.3	21.2	21.8	22.3	18.4	18.9	18.9	19.4

12H	4H	20.1	20.8	20.6	21.3	21.8	18.4	19.2	18.9	19.6
	6H	20.5	21.1	21.1	21.6	22.1	18.4	19.0	18.9	19.5
	8H	20.7	21.2	21.2	21.7	22.2	18.4	18.9	18.9	19.4

Maximum UGR = 22.3

POLAR GRAPH



Maximum Candela = 4003.744 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270)  
# 2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)