



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 80-8-L65-840-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-L65-840-DIM-UNV

[LAMPCAT] 80 CRI 4000K CCT

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6663
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	165
Total Luminaire Watts	40.5
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	3614	3527	3517
55	3483	3406	3392
65	3317	3244	1734
75	2667	1482	284
85	1198	524	393

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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>	2503.935	2503.935	2503.935	2503.935	2503.935
<b>5</b>	2474.190	2465.691	2458.255	2467.816	2478.439
<b>10</b>	2424.260	2415.761	2454.005	2460.379	2435.946
<b>15</b>	2367.956	2392.390	2365.831	2346.709	2346.709
<b>20</b>	2296.779	2349.896	2274.470	2262.784	2262.784
<b>25</b>	2204.356	2216.041	2178.859	2172.485	2172.485
<b>30</b>	2086.436	2068.376	2054.566	2047.129	2045.005
<b>35</b>	1961.080	1943.020	1927.085	1924.960	1920.711
<b>40</b>	1822.975	1793.230	1784.731	1781.544	1779.420
<b>45</b>	1663.624	1629.630	1623.256	1621.131	1619.006
<b>50</b>	1477.715	1453.281	1445.845	1443.720	1443.720
<b>55</b>	1300.304	1273.746	1271.621	1266.309	1266.309
<b>60</b>	1098.460	1078.275	1076.150	1071.901	1068.714
<b>65</b>	912.550	894.490	892.366	687.334	476.991
<b>70</b>	696.895	680.960	544.980	369.694	377.131
<b>75</b>	449.370	449.370	249.650	215.655	47.805
<b>80</b>	237.964	154.039	43.556	36.120	36.120
<b>85</b>	67.990	36.120	29.746	22.309	22.309
<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	903.86	N.A.	13.60
0-30	1911.38	N.A.	28.70
0-40	3120.71	N.A.	46.80
0-60	5511.98	N.A.	82.70
0-80	6620.1	N.A.	99.30
0-90	6663.47	N.A.	100.00
10-90	6428.5	N.A.	96.50
20-40	2216.85	N.A.	33.30
20-50	3472.21	N.A.	52.10
40-70	3181.4	N.A.	47.70
60-80	1108.12	N.A.	16.60
70-80	317.99	N.A.	4.80
80-90	43.37	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	6663.47	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	234.97
10-20	668.89
20-30	1007.52
30-40	1209.34
40-50	1255.36
50-60	1135.91
60-70	790.13
70-80	317.99
80-90	43.37
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	149	149	149	149	145	145	145	145	139	139	139	133	133	133	128	128	128	125
1	137	132	127	122	134	129	124	120	123	120	116	119	116	113	114	112	109	107
2	125	115	107	100	122	113	105	99	109	102	97	104	99	95	101	96	93	90
3	114	102	92	84	111	100	90	83	96	88	82	92	86	80	89	84	79	76
4	105	90	79	71	102	88	78	71	85	77	70	82	75	69	80	73	68	65
5	96	80	69	61	94	79	69	61	76	67	60	74	66	60	72	65	59	56
6	89	72	61	54	86	71	61	53	69	60	53	67	59	52	65	58	52	49
7	82	66	55	47	80	65	54	47	63	54	47	61	53	46	59	52	46	44
8	77	60	49	42	75	59	49	42	57	48	42	56	48	42	54	47	41	39
9	72	55	45	38	70	54	45	38	53	44	38	51	43	37	50	43	37	35
10	67	51	41	34	66	50	41	34	49	40	34	48	40	34	47	39	34	32

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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	18.3	19.9	18.7	20.2	20.5	UGR Viewed Endwise			
	3H	20.2	21.6	20.6	22.0	22.3	18.2	19.8	18.6	20.2
	4H	20.8	22.2	21.2	22.5	22.9	18.9	20.4	19.3	20.7
	6H	21.2	22.4	21.6	22.8	23.2	19.0	20.3	19.4	20.7
	8H	21.2	22.4	21.7	22.8	23.2	18.9	20.2	19.3	20.6
	12H	21.3	22.4	21.7	22.8	23.2	18.9	20.1	19.3	20.5

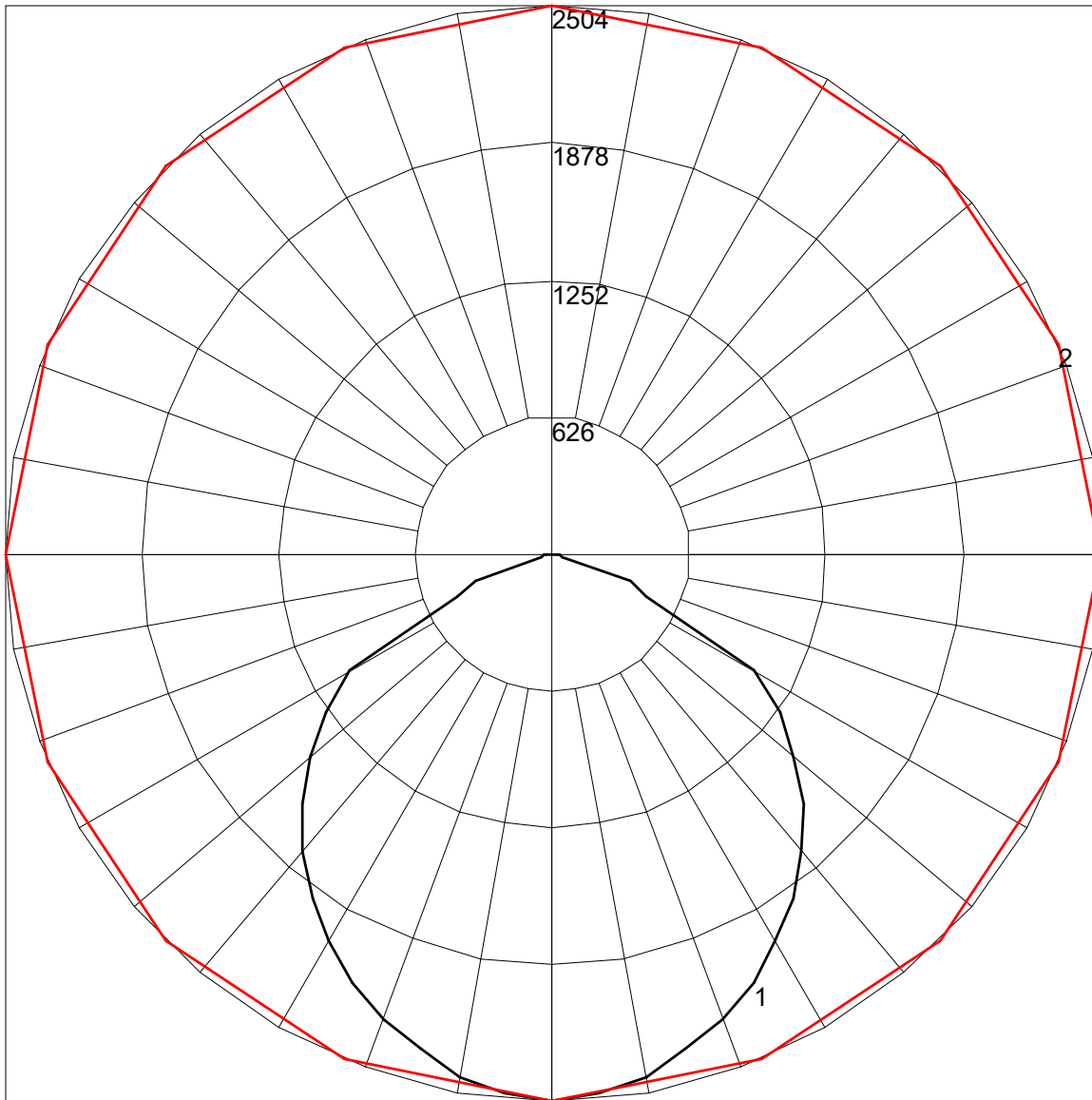
4H	2H	19.0	20.3	19.4	20.7	21.1	18.9	20.3	19.3	20.6	21.0
	3H	21.0	22.1	21.4	22.5	22.9	18.9	20.0	19.3	20.4	20.8
	4H	21.7	22.7	22.1	23.1	23.6	19.7	20.9	20.2	21.3	21.7
	6H	22.1	23.0	22.6	23.4	23.9	19.9	20.9	20.3	21.3	21.7
	8H	22.2	23.0	22.7	23.5	23.9	19.8	20.7	20.3	21.2	21.6
	12H	22.3	23.0	22.7	23.5	23.9	19.8	20.7	20.3	21.1	21.6

8H	4H	21.8	22.6	22.2	23.0	23.5	19.8	20.5	20.3	21.0	21.5
	6H	22.2	22.8	22.7	23.3	23.8	20.0	20.9	20.5	21.3	21.8
	8H	22.3	22.9	22.8	23.4	23.9	20.0	20.7	20.5	21.2	21.7
	12H	22.3	22.9	22.8	23.4	23.9	20.0	20.6	20.5	21.1	21.6

12H	4H	21.7	22.5	22.2	22.9	23.4	20.0	20.5	20.5	21.0	21.6
	6H	22.2	22.8	22.7	23.2	23.8	20.0	20.8	20.5	21.3	21.7
	8H	22.3	22.8	22.8	23.3	23.9	20.0	20.6	20.6	21.1	21.6

Maximum UGR = 23.9

POLAR GRAPH



Maximum Candela = 2503.935 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.)