



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 192\_168\_37\_234-10\_18\_26-MERGED.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from UL #13537338.04 & #12326812.12

[TESTLAB] UL Verification Services Inc.

[ISSUE DATE] 3-MAR-2021

[MANUFAC] WILLIAMS INDOOR

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

[LUMCAT] 8CRDI-TL-P29-835U-P29-835D-xxx-PoE PR-LW-CSU-RW-WHD-WM

[LUMINAIRE] White formed aluminum housing, wide distribution reflector

[MORE] trims, flush upright frosted lens enclosure, no downlight enclosure

[LAMP] Two white LEDs (one up/one down)

[SEARCH\_SOURCETYPE] LED

[SEARCH\_APPLICATION] INDOOR, DIRECT, INDIRECT

[SEARCH\_MOUNTING] WALL

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4811
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	96
Total Luminaire Watts	50
Ballast Factor	1.00
CIE Type	General Diffuse
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
Basic Luminous Shape	Circular w/ Sides
Luminous Length (0-180)	0.65 ft (Diameter)
Luminous Width (90-270)	0.65 ft (Diameter)
Luminous Height	2.17 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3345	3345	3345
55	2071	2071	2071
65	1021	1021	1021
75	375	375	375
85	101	101	101

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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>0.0</b>	1757.007	1757.007	1757.007	1757.007	1757.007
<b>2.5</b>	1743.859	1743.859	1743.859	1743.859	1743.859
<b>5.0</b>	1714.274	1714.274	1714.274	1714.274	1714.274
<b>7.5</b>	1681.402	1681.402	1681.402	1681.402	1681.402
<b>10.0</b>	1645.243	1645.243	1645.243	1645.243	1645.243
<b>12.5</b>	1605.796	1605.796	1605.796	1605.796	1605.796
<b>15.0</b>	1566.350	1566.350	1566.350	1566.350	1566.350
<b>17.5</b>	1530.684	1530.684	1530.684	1530.684	1530.684
<b>20.0</b>	1498.634	1498.634	1498.634	1498.634	1498.634
<b>22.5</b>	1452.448	1452.448	1452.448	1452.448	1452.448
<b>25.0</b>	1374.706	1374.706	1374.706	1374.706	1374.706
<b>27.5</b>	1252.422	1252.422	1252.422	1252.422	1252.422
<b>30.0</b>	1076.229	1076.229	1076.229	1076.229	1076.229
<b>32.5</b>	853.357	853.357	853.357	853.357	853.357
<b>35.0</b>	647.907	647.907	647.907	647.907	647.907
<b>37.5</b>	518.720	518.720	518.720	518.720	518.720
<b>40.0</b>	451.825	451.825	451.825	451.825	451.825
<b>42.5</b>	410.900	410.900	410.900	410.900	410.900
<b>45.0</b>	380.000	380.000	380.000	380.000	380.000
<b>47.5</b>	351.566	351.566	351.566	351.566	351.566
<b>50.0</b>	322.310	322.310	322.310	322.310	322.310
<b>52.5</b>	290.260	290.260	290.260	290.260	290.260
<b>55.0</b>	257.059	257.059	257.059	257.059	257.059
<b>57.5</b>	223.201	223.201	223.201	223.201	223.201
<b>60.0</b>	191.315	191.315	191.315	191.315	191.315
<b>62.5</b>	161.401	161.401	161.401	161.401	161.401
<b>65.0</b>	133.625	133.625	133.625	133.625	133.625
<b>67.5</b>	108.149	108.149	108.149	108.149	108.149
<b>70.0</b>	85.303	85.303	85.303	85.303	85.303
<b>72.5</b>	65.415	65.415	65.415	65.415	65.415
<b>75.0</b>	50.130	50.130	50.130	50.130	50.130
<b>77.5</b>	39.118	39.118	39.118	39.118	39.118
<b>80.0</b>	29.749	29.749	29.749	29.749	29.749
<b>82.5</b>	21.038	21.038	21.038	21.038	21.038
<b>85.0</b>	13.313	13.313	13.313	13.313	13.313
<b>87.5</b>	6.081	6.081	6.081	6.081	6.081
<b>90.0</b>	7.419	7.419	7.419	7.419	7.419
<b>92.5</b>	8.894	8.894	8.894	8.894	8.894
<b>95.0</b>	15.541	15.541	15.541	15.541	15.541
<b>97.5</b>	26.359	26.359	26.359	26.359	26.359
<b>100.0</b>	39.240	39.240	39.240	39.240	39.240
<b>102.5</b>	52.764	52.764	52.764	52.764	52.764
<b>105.0</b>	67.343	67.343	67.343	67.343	67.343
<b>107.5</b>	83.799	83.799	83.799	83.799	83.799
<b>110.0</b>	102.961	102.961	102.961	102.961	102.961
<b>112.5</b>	124.507	124.507	124.507	124.507	124.507
<b>115.0</b>	148.895	148.895	148.895	148.895	148.895
<b>117.5</b>	176.218	176.218	176.218	176.218	176.218
<b>120.0</b>	206.793	206.793	206.793	206.793	206.793
<b>122.5</b>	240.809	240.809	240.809	240.809	240.809
<b>125.0</b>	278.399	278.399	278.399	278.399	278.399
<b>127.5</b>	318.511	318.511	318.511	318.511	318.511
<b>130.0</b>	360.227	360.227	360.227	360.227	360.227
<b>132.5</b>	402.173	402.173	402.173	402.173	402.173

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CANDELA TABULATION - (Cont.)

135.0	444.073	444.073	444.073	444.073	444.073
137.5	487.761	487.761	487.761	487.761	487.761
140.0	538.187	538.187	538.187	538.187	538.187
142.5	602.824	602.824	602.824	602.824	602.824
145.0	689.924	689.924	689.924	689.924	689.924
147.5	802.696	802.696	802.696	802.696	802.696
150.0	942.515	942.515	942.515	942.515	942.515
152.5	1088.293	1088.293	1088.293	1088.293	1088.293
155.0	1236.363	1236.363	1236.363	1236.363	1236.363
157.5	1368.388	1368.388	1368.388	1368.388	1368.388
160.0	1471.533	1471.533	1471.533	1471.533	1471.533
162.5	1540.755	1540.755	1540.755	1540.755	1540.755
165.0	1580.179	1580.179	1580.179	1580.179	1580.179
167.5	1601.266	1601.266	1601.266	1601.266	1601.266
170.0	1613.185	1613.185	1613.185	1613.185	1613.185
172.5	1621.895	1621.895	1621.895	1621.895	1621.895
175.0	1629.689	1629.689	1629.689	1629.689	1629.689
177.5	1633.356	1633.356	1633.356	1633.356	1633.356
180.0	1632.542	1632.542	1632.542	1632.542	1632.542

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	604.04	N.A.	12.60
0-30	1219.5	N.A.	25.30
0-40	1648.85	N.A.	34.30
0-60	2172.95	N.A.	45.20
0-80	2362.55	N.A.	49.10
0-90	2378.62	N.A.	49.40
10-90	2217.11	N.A.	46.10
20-40	1044.81	N.A.	21.70
20-50	1339.62	N.A.	27.80
40-70	657.80	N.A.	13.70
60-80	189.61	N.A.	3.90
70-80	55.91	N.A.	1.20
80-90	16.06	N.A.	0.30
90-110	92.66	N.A.	1.90
90-120	242.01	N.A.	5.00
90-130	492.17	N.A.	10.20
90-150	1276.00	N.A.	26.50
90-180	2432.7	N.A.	50.60
110-180	2340.04	N.A.	48.60
0-180	4811.32	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	161.50
10-20	442.53
20-30	615.46
30-40	429.35
40-50	294.81
50-60	229.29
60-70	133.70
70-80	55.91
80-90	16.06
90-100	20.17
100-110	72.49
110-120	149.35
120-130	250.16
130-140	343.40
140-150	440.43
150-160	559.69
160-170	442.03
170-180	154.99

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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	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	49
1	99	95	92	89	91	88	85	82	75	73	71	62	61	60	51	50	49	44
2	91	85	79	75	84	79	74	70	67	64	61	56	54	52	47	45	44	39
3	84	76	69	64	78	70	65	60	60	56	53	51	48	46	43	41	39	35
4	78	68	61	56	72	63	57	52	55	50	46	47	43	41	39	37	35	31
5	72	62	54	49	67	58	51	46	50	45	41	43	39	36	36	34	32	28
6	67	56	49	43	62	52	46	41	46	41	37	39	36	33	34	31	29	26
7	62	51	44	39	58	48	42	37	42	37	33	36	33	30	31	28	26	24
8	58	47	40	35	54	44	38	33	39	34	30	34	30	27	29	26	24	22
9	55	43	36	32	51	41	35	30	36	31	28	31	28	25	27	24	22	20
10	51	40	33	29	48	38	32	28	34	29	25	29	26	23	26	23	21	19

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**UGR TABLE - CORRECTED**

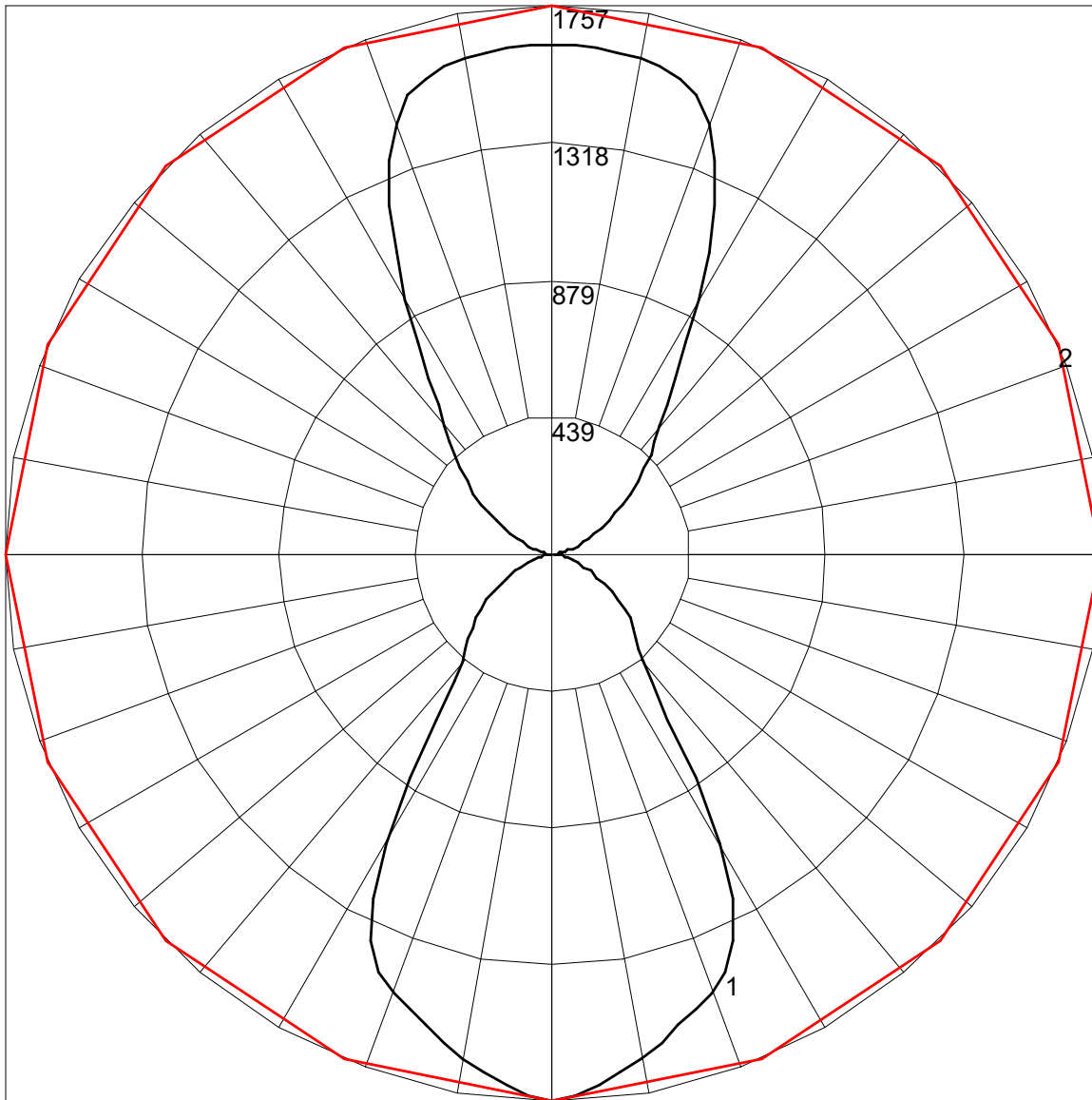
Reflectances

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	7.6	8.4	8.6	9.3	10.6	7.6	8.4	8.6	9.3	10.6
	3H	8.2	8.9	9.2	9.9	11.2	8.2	8.9	9.2	9.9	11.2
	4H	8.3	9.0	9.3	10.0	11.3	8.3	9.0	9.3	10.0	11.3
	6H	8.3	8.9	9.4	9.9	11.3	8.3	8.9	9.4	9.9	11.3
	8H	8.3	8.9	9.3	9.9	11.2	8.3	8.9	9.3	9.9	11.2
	12H	8.3	8.8	9.3	9.8	11.2	8.3	8.8	9.3	9.8	11.2
4H	2H	7.7	8.4	8.7	9.4	10.7	7.7	8.4	8.7	9.4	10.7
	3H	8.4	9.0	9.5	10.0	11.3	8.4	9.0	9.5	10.0	11.3
	4H	8.6	9.1	9.6	10.1	11.4	8.6	9.1	9.6	10.1	11.4
	6H	8.6	9.1	9.7	10.1	11.5	8.6	9.1	9.7	10.1	11.5
	8H	8.6	9.0	9.7	10.1	11.4	8.6	9.0	9.7	10.1	11.4
	12H	8.6	8.9	9.7	10.0	11.4	8.6	8.9	9.7	10.0	11.4
8H	4H	8.5	8.9	9.6	10.0	11.3	8.5	8.9	9.6	10.0	11.3
	6H	8.6	8.9	9.7	10.0	11.4	8.6	8.9	9.7	10.0	11.4
	8H	8.6	8.9	9.7	10.0	11.4	8.6	8.9	9.7	10.0	11.4
	12H	8.6	8.9	9.7	9.9	11.3	8.6	8.9	9.7	9.9	11.3
12H	4H	8.5	8.8	9.5	9.9	11.2	8.5	8.8	9.5	9.9	11.2
	6H	8.6	8.9	9.7	9.9	11.3	8.6	8.9	9.7	9.9	11.3
	8H	8.6	8.8	9.7	9.9	11.3	8.6	8.8	9.7	9.9	11.3

Maximum UGR = 11.5

POLAR GRAPH



Maximum Candela = 1757.007 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.)