



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 192\_168\_37\_234-15\_12\_13-MERGED (1).IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from UL #13537338.03 & #12326812.04

[TESTLAB] UL Verification Services Inc.

[ISSUE DATE] 1-MAR-2021

[MANUFAC] WILLIAMS INDOOR

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

[LUMCAT] 8CRDI-TL-P29-8TWU-P29-8TWD-xxx-POE PR-OW-CSU-OM-CSD-WM 4000k

[LUMINAIRE] White formed aluminum housing, wide distribution reflector

[MORE] trims, clear uplight glass 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	4767
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	95
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	3602	3602	3602
55	2226	2226	2226
65	1182	1182	1182
75	514	514	514
85	114	114	114

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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>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>
0	1445.436	1445.436	1445.436	1445.436	1445.436	1445.436	1445.436	1445.436	1445.436
5	1422.590	1422.590	1422.590	1422.590	1422.590	1422.590	1422.590	1422.590	1422.590
10	1404.546	1404.546	1404.546	1404.546	1404.546	1404.546	1404.546	1404.546	1404.546
15	1388.684	1388.684	1388.684	1388.684	1388.684	1388.684	1388.684	1388.684	1388.684
20	1342.700	1342.700	1342.700	1342.700	1342.700	1342.700	1342.700	1342.700	1342.700
25	1197.473	1197.473	1197.473	1197.473	1197.473	1197.473	1197.473	1197.473	1197.473
30	916.767	916.767	916.767	916.767	916.767	916.767	916.767	916.767	916.767
35	611.760	611.760	611.760	611.760	611.760	611.760	611.760	611.760	611.760
40	479.775	479.775	479.775	479.775	479.775	479.775	479.775	479.775	479.775
45	409.198	409.198	409.198	409.198	409.198	409.198	409.198	409.198	409.198
50	344.151	344.151	344.151	344.151	344.151	344.151	344.151	344.151	344.151
55	276.340	276.340	276.340	276.340	276.340	276.340	276.340	276.340	276.340
60	211.002	211.002	211.002	211.002	211.002	211.002	211.002	211.002	211.002
65	154.686	154.686	154.686	154.686	154.686	154.686	154.686	154.686	154.686
70	106.636	106.636	106.636	106.636	106.636	106.636	106.636	106.636	106.636
75	68.699	68.699	68.699	68.699	68.699	68.699	68.699	68.699	68.699
80	39.261	39.261	39.261	39.261	39.261	39.261	39.261	39.261	39.261
85	15.076	15.076	15.076	15.076	15.076	15.076	15.076	15.076	15.076
90	5.694	5.694	5.694	5.694	5.694	5.694	5.694	5.694	5.694
95	5.538	5.538	5.538	5.538	5.538	5.538	5.538	5.538	5.538
100	6.700	6.700	6.700	6.700	6.700	6.700	6.700	6.700	6.700
105	8.288	8.288	8.288	8.288	8.288	8.288	8.288	8.288	8.288
110	10.457	10.457	10.457	10.457	10.457	10.457	10.457	10.457	10.457
115	13.710	13.710	13.710	13.710	13.710	13.710	13.710	13.710	13.710
120	18.977	18.977	18.977	18.977	18.977	18.977	18.977	18.977	18.977
125	28.737	28.737	28.737	28.737	28.737	28.737	28.737	28.737	28.737
130	45.662	45.662	45.662	45.662	45.662	45.662	45.662	45.662	45.662
135	72.732	72.732	72.732	72.732	72.732	72.732	72.732	72.732	72.732
140	289.729	289.729	289.729	289.729	289.729	289.729	289.729	289.729	289.729
145	1029.796	1029.796	1029.796	1029.796	1029.796	1029.796	1029.796	1029.796	1029.796
150	1822.572	1822.572	1822.572	1822.572	1822.572	1822.572	1822.572	1822.572	1822.572
155	2161.448	2161.448	2161.448	2161.448	2161.448	2161.448	2161.448	2161.448	2161.448
160	2117.684	2117.684	2117.684	2117.684	2117.684	2117.684	2117.684	2117.684	2117.684
165	2004.209	2004.209	2004.209	2004.209	2004.209	2004.209	2004.209	2004.209	2004.209
170	1920.555	1920.555	1920.555	1920.555	1920.555	1920.555	1920.555	1920.555	1920.555
175	1752.860	1752.860	1752.860	1752.860	1752.860	1752.860	1752.860	1752.860	1752.860
180	1625.514	1625.514	1625.514	1625.514	1625.514	1625.514	1625.514	1625.514	1625.514

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	526.22	N.A.	11.00
0-30	1060.19	N.A.	22.20
0-40	1467.4	N.A.	30.80
0-60	2031.78	N.A.	42.60
0-80	2261.57	N.A.	47.40
0-90	2282.02	N.A.	47.90
10-90	2146.6	N.A.	45.00
20-40	941.18	N.A.	19.70
20-50	1258.00	N.A.	26.40
40-70	719.46	N.A.	15.10
60-80	229.78	N.A.	4.80
70-80	74.72	N.A.	1.60
80-90	20.45	N.A.	0.40
90-110	15.31	N.A.	0.30
90-120	29.38	N.A.	0.60
90-130	56.58	N.A.	1.20
90-150	787.80	N.A.	16.50
90-180	2485.1	N.A.	52.10
110-180	2469.79	N.A.	51.80
0-180	4767.12	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	135.42
10-20	390.80
20-30	533.98
30-40	407.20
40-50	316.83
50-60	247.56
60-70	155.07
70-80	74.72
80-90	20.45
90-100	6.40
100-110	8.91
110-120	14.07
120-130	27.21
130-140	91.04
140-150	640.18
150-160	952.98
160-170	572.52
170-180	171.80

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : 192\_168\_37\_234-15\_12\_13-MERGED (1).IES****COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

Effective Floor Cavity Reflectance 0.20

RC RW	80				70				50			30			10			0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	107	107	107	107	98	98	98	98	82	82	82	68	68	68	54	54	54	48
1	98	94	91	88	90	87	84	81	73	71	69	61	59	58	49	48	48	42
2	90	84	78	73	83	77	73	68	66	62	59	55	52	50	45	43	42	37
3	83	74	68	62	76	69	63	59	59	55	51	49	46	44	41	39	37	33
4	77	67	59	54	71	62	56	51	53	48	45	45	41	39	37	35	33	29
5	71	60	53	47	65	56	49	44	48	43	39	41	37	34	34	31	29	26
6	66	54	47	42	61	51	44	39	44	39	35	37	34	31	31	29	27	24
7	61	50	42	37	56	46	40	35	40	35	31	35	31	28	29	26	24	22
8	57	45	38	33	53	43	36	32	37	32	28	32	28	25	27	24	22	20
9	53	42	35	30	49	39	33	29	34	29	26	30	26	23	25	22	20	18
10	50	39	32	27	46	36	30	26	32	27	24	28	24	21	24	21	19	17

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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

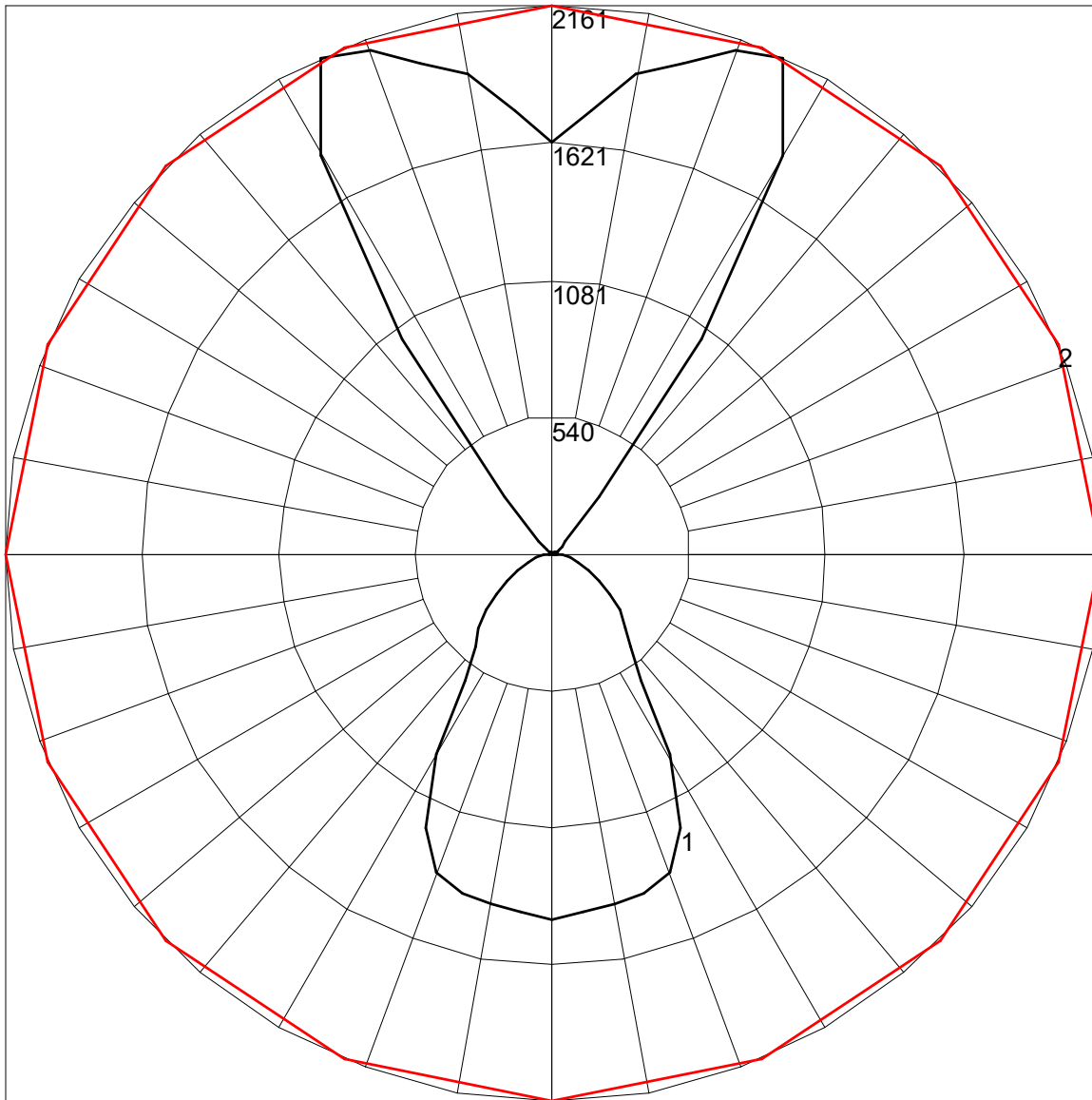
X=2H	Y=2H	8.2	8.9	9.1	9.9	11.2	8.2	8.9	9.1	9.9	11.2
	3H	9.0	9.7	10.0	10.7	12.0	9.0	9.7	10.0	10.7	12.0
	4H	9.1	9.8	10.2	10.8	12.1	9.1	9.8	10.2	10.8	12.1
	6H	9.2	9.8	10.2	10.8	12.2	9.2	9.8	10.2	10.8	12.2
	8H	9.2	9.8	10.2	10.8	12.1	9.2	9.8	10.2	10.8	12.1
	12H	9.2	9.7	10.2	10.7	12.1	9.2	9.7	10.2	10.7	12.1

### UGR Viewed Endwise

4H	2H	8.3	9.0	9.3	10.0	11.3	8.3	9.0	9.3	10.0	11.3
	3H	9.3	9.8	10.3	10.8	12.2	9.3	9.8	10.3	10.8	12.2
	4H	9.5	10.0	10.5	11.0	12.4	9.5	10.0	10.5	11.0	12.4
	6H	9.6	10.1	10.7	11.1	12.5	9.6	10.1	10.7	11.1	12.5
	8H	9.6	10.0	10.7	11.1	12.4	9.6	10.0	10.7	11.1	12.4
	12H	9.6	10.0	10.7	11.0	12.4	9.6	10.0	10.7	11.0	12.4
8H	4H	9.5	9.9	10.5	10.9	12.3	9.5	9.9	10.5	10.9	12.3
	6H	9.7	10.0	10.7	11.1	12.4	9.7	10.0	10.7	11.1	12.4
	8H	9.7	10.0	10.8	11.0	12.4	9.7	10.0	10.8	11.0	12.4
	12H	9.7	9.9	10.7	11.0	12.4	9.7	9.9	10.7	11.0	12.4
12H	4H	9.4	9.8	10.5	10.9	12.2	9.4	9.8	10.5	10.9	12.2
	6H	9.6	9.9	10.7	11.0	12.4	9.6	9.9	10.7	11.0	12.4
	8H	9.7	9.9	10.7	11.0	12.4	9.7	9.9	10.7	11.0	12.4

Maximum UGR = 12.5

POLAR GRAPH



Maximum Candela = 2161.448 Located At Horizontal Angle = 0, Vertical Angle = 155  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270)  
# 2 - Horizontal Cone Through Vertical Angle (155) (Through Max. Cd.)