



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 192\_168\_37\_234-15\_9\_11-MERGED.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from UL #13537338.03 #12326812.10

[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-LN-WHD-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	5019
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	100
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	884	884	884
55	480	480	480
65	273	273	273
75	134	134	134
85	29	29	29

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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	9215.844	9215.844	9215.844	9215.844	9215.844	9215.844	9215.844	9215.844	9215.844
5	8340.828	8340.828	8340.828	8340.828	8340.828	8340.828	8340.828	8340.828	8340.828
10	6134.501	6134.501	6134.501	6134.501	6134.501	6134.501	6134.501	6134.501	6134.501
15	3581.926	3581.926	3581.926	3581.926	3581.926	3581.926	3581.926	3581.926	3581.926
20	1803.713	1803.713	1803.713	1803.713	1803.713	1803.713	1803.713	1803.713	1803.713
25	851.395	851.395	851.395	851.395	851.395	851.395	851.395	851.395	851.395
30	408.251	408.251	408.251	408.251	408.251	408.251	408.251	408.251	408.251
35	220.901	220.901	220.901	220.901	220.901	220.901	220.901	220.901	220.901
40	139.573	139.573	139.573	139.573	139.573	139.573	139.573	139.573	139.573
45	100.385	100.385	100.385	100.385	100.385	100.385	100.385	100.385	100.385
50	76.497	76.497	76.497	76.497	76.497	76.497	76.497	76.497	76.497
55	59.587	59.587	59.587	59.587	59.587	59.587	59.587	59.587	59.587
60	46.569	46.569	46.569	46.569	46.569	46.569	46.569	46.569	46.569
65	35.698	35.698	35.698	35.698	35.698	35.698	35.698	35.698	35.698
70	26.036	26.036	26.036	26.036	26.036	26.036	26.036	26.036	26.036
75	17.849	17.849	17.849	17.849	17.849	17.849	17.849	17.849	17.849
80	10.468	10.468	10.468	10.468	10.468	10.468	10.468	10.468	10.468
85	3.892	3.892	3.892	3.892	3.892	3.892	3.892	3.892	3.892
90	5.148	5.148	5.148	5.148	5.148	5.148	5.148	5.148	5.148
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	1747.94	N.A.	34.80
0-30	2185.82	N.A.	43.60
0-40	2338.61	N.A.	46.60
0-60	2472.91	N.A.	49.30
0-80	2527.58	N.A.	50.40
0-90	2533.96	N.A.	50.50
10-90	1806.25	N.A.	36.00
20-40	590.67	N.A.	11.80
20-50	670.84	N.A.	13.40
40-70	169.93	N.A.	3.40
60-80	54.68	N.A.	1.10
70-80	19.05	N.A.	0.40
80-90	6.38	N.A.	0.10
90-110	15.16	N.A.	0.30
90-120	29.23	N.A.	0.60
90-130	56.43	N.A.	1.10
90-150	787.65	N.A.	15.70
90-180	2484.95	N.A.	49.50
110-180	2469.79	N.A.	49.20
0-180	5018.91	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	727.71
10-20	1020.22
20-30	437.88
30-40	152.79
40-50	80.17
50-60	54.13
60-70	35.63
70-80	19.05
80-90	6.38
90-100	6.25
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

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**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	99	99	99	99	84	84	84	70	70	70	57	57	57	50
1	101	97	94	92	93	90	88	86	77	76	74	65	64	63	54	54	53	48
2	94	89	84	81	87	83	79	76	72	69	67	61	60	58	52	51	50	46
3	89	82	76	72	82	77	72	68	67	64	61	58	56	54	50	48	47	43
4	84	76	70	65	78	71	66	62	63	59	56	55	52	50	48	46	45	41
5	79	70	64	60	74	66	61	57	59	55	52	52	49	47	46	44	43	40
6	75	66	60	55	70	62	57	53	56	52	49	50	47	45	44	42	41	38
7	71	62	56	51	67	59	53	50	53	49	46	47	45	43	42	41	39	37
8	68	58	52	48	64	55	50	47	50	46	44	46	43	41	41	39	38	36
9	64	55	49	45	61	53	48	44	48	44	41	44	41	39	40	38	36	34
10	62	52	47	43	58	50	45	42	46	42	40	42	39	37	38	36	35	33

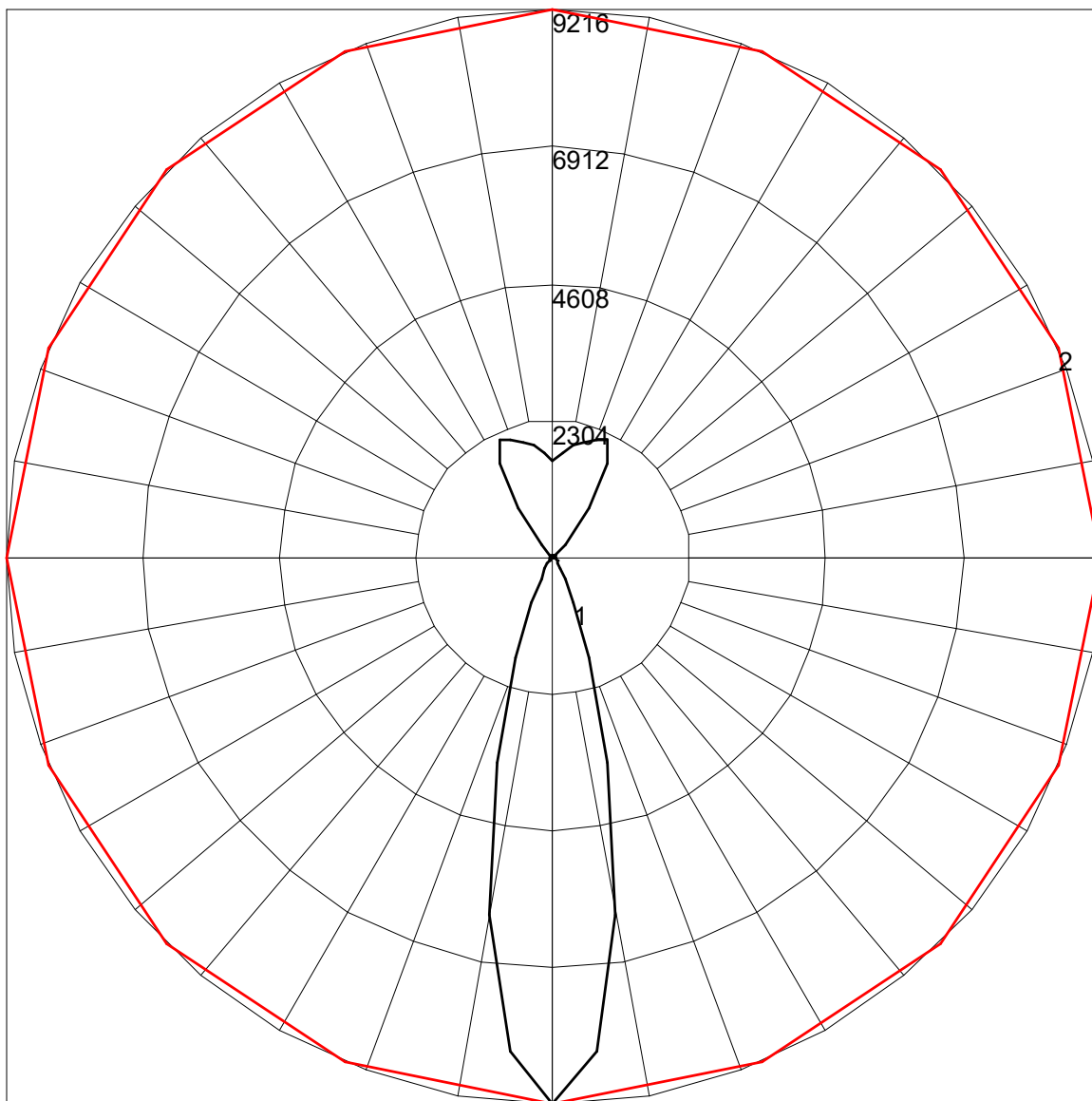
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**UGR TABLE - CORRECTED**

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	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
	3H	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
	4H	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
	6H	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
	8H	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
	12H	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
4H	2H	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
	3H	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
	4H	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
	6H	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
	8H	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
	12H	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
8H	4H	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
	6H	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
	8H	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
	12H	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
12H	4H	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
	6H	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
	8H	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6

Maximum UGR = 5.6

POLAR GRAPH



Maximum Candela = 9215.844 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.)