



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 192\_168\_37\_234-15\_44\_29-MERGED.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from UL #13537338.03 & #12326812.15

[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-OW-CSU-RN-WHD-WM

[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	5351
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	107
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	886	886	886
55	430	430	430
65	204	204	204
75	79	79	79
85	22	22	22

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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	9629.300	9629.300	9629.300	9629.300	9629.300	9629.300	9629.300	9629.300	9629.300
5	8729.192	8729.192	8729.192	8729.192	8729.192	8729.192	8729.192	8729.192	8729.192
10	6452.447	6452.447	6452.447	6452.447	6452.447	6452.447	6452.447	6452.447	6452.447
15	3809.362	3809.362	3809.362	3809.362	3809.362	3809.362	3809.362	3809.362	3809.362
20	1943.318	1943.318	1943.318	1943.318	1943.318	1943.318	1943.318	1943.318	1943.318
25	935.598	935.598	935.598	935.598	935.598	935.598	935.598	935.598	935.598
30	456.923	456.923	456.923	456.923	456.923	456.923	456.923	456.923	456.923
35	246.421	246.421	246.421	246.421	246.421	246.421	246.421	246.421	246.421
40	148.969	148.969	148.969	148.969	148.969	148.969	148.969	148.969	148.969
45	100.600	100.600	100.600	100.600	100.600	100.600	100.600	100.600	100.600
50	72.123	72.123	72.123	72.123	72.123	72.123	72.123	72.123	72.123
55	53.377	53.377	53.377	53.377	53.377	53.377	53.377	53.377	53.377
60	39.210	39.210	39.210	39.210	39.210	39.210	39.210	39.210	39.210
65	26.760	26.760	26.760	26.760	26.760	26.760	26.760	26.760	26.760
70	17.172	17.172	17.172	17.172	17.172	17.172	17.172	17.172	17.172
75	10.590	10.590	10.590	10.590	10.590	10.590	10.590	10.590	10.590
80	6.440	6.440	6.440	6.440	6.440	6.440	6.440	6.440	6.440
85	2.862	2.862	2.862	2.862	2.862	2.862	2.862	2.862	2.862
90	5.699	5.699	5.699	5.699	5.699	5.699	5.699	5.699	5.699
95	5.981	5.981	5.981	5.981	5.981	5.981	5.981	5.981	5.981
100	7.236	7.236	7.236	7.236	7.236	7.236	7.236	7.236	7.236
105	8.952	8.952	8.952	8.952	8.952	8.952	8.952	8.952	8.952
110	11.294	11.294	11.294	11.294	11.294	11.294	11.294	11.294	11.294
115	14.808	14.808	14.808	14.808	14.808	14.808	14.808	14.808	14.808
120	20.496	20.496	20.496	20.496	20.496	20.496	20.496	20.496	20.496
125	31.037	31.037	31.037	31.037	31.037	31.037	31.037	31.037	31.037
130	49.317	49.317	49.317	49.317	49.317	49.317	49.317	49.317	49.317
135	78.554	78.554	78.554	78.554	78.554	78.554	78.554	78.554	78.554
140	312.921	312.921	312.921	312.921	312.921	312.921	312.921	312.921	312.921
145	1112.229	1112.229	1112.229	1112.229	1112.229	1112.229	1112.229	1112.229	1112.229
150	1968.466	1968.466	1968.466	1968.466	1968.466	1968.466	1968.466	1968.466	1968.466
155	2334.468	2334.468	2334.468	2334.468	2334.468	2334.468	2334.468	2334.468	2334.468
160	2287.202	2287.202	2287.202	2287.202	2287.202	2287.202	2287.202	2287.202	2287.202
165	2164.643	2164.643	2164.643	2164.643	2164.643	2164.643	2164.643	2164.643	2164.643
170	2074.293	2074.293	2074.293	2074.293	2074.293	2074.293	2074.293	2074.293	2074.293
175	1893.174	1893.174	1893.174	1893.174	1893.174	1893.174	1893.174	1893.174	1893.174
180	1755.634	1755.634	1755.634	1755.634	1755.634	1755.634	1755.634	1755.634	1755.634

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1845.39	N.A.	34.50
0-30	2323.56	N.A.	43.40
0-40	2493.1	N.A.	46.60
0-60	2622.9	N.A.	49.00
0-80	2661.88	N.A.	49.70
0-90	2666.75	N.A.	49.80
10-90	1904.18	N.A.	35.60
20-40	647.71	N.A.	12.10
20-50	728.82	N.A.	13.60
40-70	156.96	N.A.	2.90
60-80	38.97	N.A.	0.70
70-80	11.81	N.A.	0.20
80-90	4.87	N.A.	0.10
90-110	16.41	N.A.	0.30
90-120	31.60	N.A.	0.60
90-130	60.99	N.A.	1.10
90-150	850.74	N.A.	15.90
90-180	2683.9	N.A.	50.20
110-180	2667.49	N.A.	49.90
0-180	5350.65	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	762.57
10-20	1082.83
20-30	478.17
30-40	169.54
40-50	81.11
50-60	48.69
60-70	27.16
70-80	11.81
80-90	4.87
90-100	6.79
100-110	9.62
110-120	15.19
120-130	29.38
130-140	98.32
140-150	691.43
150-160	1029.27
160-170	618.35
170-180	185.55

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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	50
1	100	97	94	92	93	90	88	86	77	75	74	65	64	63	54	53	53	47
2	94	89	84	81	87	83	79	76	71	69	67	61	59	58	51	50	50	45
3	89	82	76	72	82	76	72	68	67	63	61	58	56	54	49	48	47	43
4	84	76	70	65	78	71	66	62	63	59	56	55	52	50	47	46	44	41
5	79	70	64	60	74	66	61	57	59	55	52	52	49	47	45	44	42	40
6	75	66	60	55	70	62	57	53	56	52	49	49	47	45	44	42	41	38
7	71	62	56	51	67	59	53	50	53	49	46	47	44	42	42	40	39	37
8	67	58	52	48	63	55	50	47	50	46	43	45	42	40	41	39	37	35
9	64	55	49	45	61	53	47	44	48	44	41	44	41	39	39	37	36	34
10	62	52	47	43	58	50	45	42	46	42	39	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

X=2H	Y=2H	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8
	3H	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8
	4H	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8
	6H	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8
	8H	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8
	12H	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8

UGR Viewed Endwise

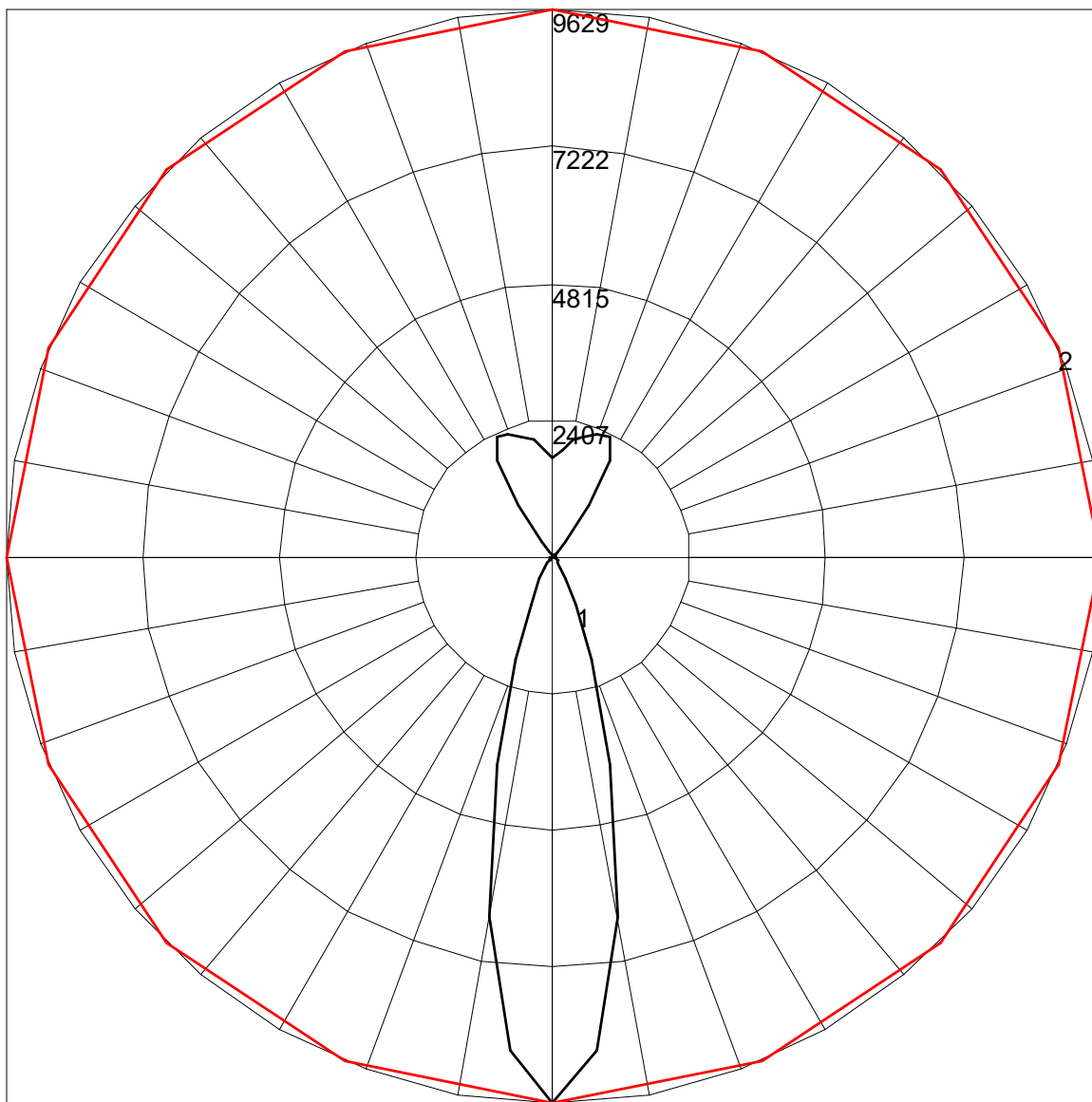
4H	2H	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8
	3H	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8
	4H	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8
	6H	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8
	8H	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8
	12H	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8

8H	4H	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8
	6H	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8
	8H	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8
	12H	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8

12H	4H	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8
	6H	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8
	8H	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8

Maximum UGR = 5.8

POLAR GRAPH



Maximum Candela = 9629.3 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.)