



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 192\_168\_37\_234-15\_38\_5-MERGED.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from UL #13537338.03 & BALLABS #20687.0

[TESTLAB] UL Verification Services Inc.

[ISSUEDATE] 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-OW-CSD-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	5632
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	113
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	569	569	569
55	147	147	147
65	21	21	21
75	0	0	0
85	0	0	0

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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	2350.850	2350.850	2350.850	2350.850	2350.850	2350.850	2350.850	2350.850	2350.850
5	2220.091	2220.091	2220.091	2220.091	2220.091	2220.091	2220.091	2220.091	2220.091
10	2443.647	2443.647	2443.647	2443.647	2443.647	2443.647	2443.647	2443.647	2443.647
15	2439.429	2439.429	2439.429	2439.429	2439.429	2439.429	2439.429	2439.429	2439.429
20	2547.692	2547.692	2547.692	2547.692	2547.692	2547.692	2547.692	2547.692	2547.692
25	2786.714	2786.714	2786.714	2786.714	2786.714	2786.714	2786.714	2786.714	2786.714
30	2737.503	2737.503	2737.503	2737.503	2737.503	2737.503	2737.503	2737.503	2737.503
35	849.231	849.231	849.231	849.231	849.231	849.231	849.231	849.231	849.231
40	116.699	116.699	116.699	116.699	116.699	116.699	116.699	116.699	116.699
45	64.677	64.677	64.677	64.677	64.677	64.677	64.677	64.677	64.677
50	37.962	37.962	37.962	37.962	37.962	37.962	37.962	37.962	37.962
55	18.278	18.278	18.278	18.278	18.278	18.278	18.278	18.278	18.278
60	9.842	9.842	9.842	9.842	9.842	9.842	9.842	9.842	9.842
65	2.812	2.812	2.812	2.812	2.812	2.812	2.812	2.812	2.812
70	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
75	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
80	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
85	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
90	5.270	5.270	5.270	5.270	5.270	5.270	5.270	5.270	5.270
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	922.15	N.A.	16.40
0-30	2180.73	N.A.	38.70
0-40	2870.06	N.A.	51.00
0-60	2943.11	N.A.	52.30
0-80	2946.89	N.A.	52.30
0-90	2948.34	N.A.	52.30
10-90	2726.86	N.A.	48.40
20-40	1947.9	N.A.	34.60
20-50	2002.23	N.A.	35.60
40-70	76.84	N.A.	1.40
60-80	3.79	N.A.	0.10
70-80	0.00	N.A.	0.00
80-90	1.44	N.A.	0.00
90-110	16.30	N.A.	0.30
90-120	31.49	N.A.	0.60
90-130	60.87	N.A.	1.10
90-150	850.62	N.A.	15.10
90-180	2683.79	N.A.	47.70
110-180	2667.49	N.A.	47.40
0-180	5632.12	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	221.48
10-20	700.67
20-30	1258.58
30-40	689.33
40-50	54.32
50-60	18.73
60-70	3.79
70-80	0.00
80-90	1.44
90-100	6.67
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	108	108	108	108	100	100	100	100	85	85	85	71	71	71	58	58	58	52
1	101	97	94	92	93	91	88	86	78	76	74	66	65	64	55	55	54	49
2	94	88	84	80	87	82	78	75	72	69	66	61	59	58	52	51	50	46
3	88	80	75	70	82	75	70	66	66	62	59	57	55	53	49	47	46	42
4	82	73	67	62	76	69	64	59	61	57	54	53	50	48	46	44	43	39
5	77	67	61	56	72	64	58	53	56	52	49	50	46	44	43	41	39	37
6	72	62	55	51	67	59	53	48	52	48	44	46	43	40	41	38	37	34
7	67	57	51	46	63	54	48	44	49	44	41	43	40	37	38	36	34	32
8	63	53	46	42	59	50	45	40	45	41	38	41	37	35	36	34	32	30
9	60	49	43	39	56	47	41	37	42	38	35	38	35	32	34	31	30	28
10	56	46	40	36	53	44	38	34	40	35	32	36	32	30	32	30	28	26

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**UGR TABLE - CORRECTED**

Reflectances

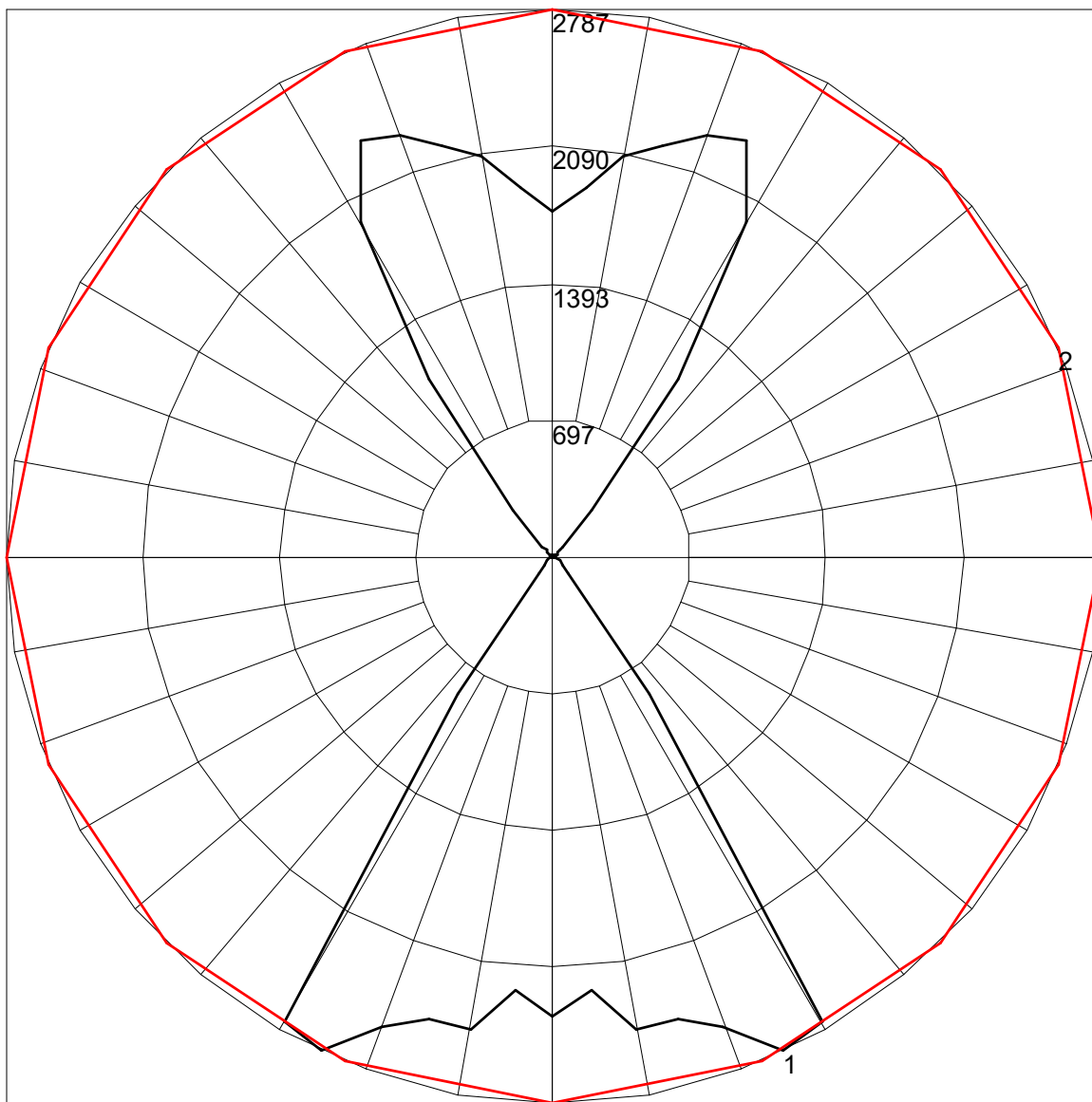
Ceiling Cavity	70	70	50	50	30	70	70	50	50	30
Walls	50	30	50	30	30	50	30	50	30	30
Floor Cavity	20	20	20	20	20	20	20	20	20	20

Room Size      UGR Viewed Crosswise

X=2H	Y=2H	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
	3H	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
	4H	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
	6H	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
	8H	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
	12H	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
4H	2H	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
	3H	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
	4H	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
	6H	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
	8H	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
	12H	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
8H	4H	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
	6H	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
	8H	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
	12H	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
12H	4H	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
	6H	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
	8H	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0

Maximum UGR = 6.0

POLAR GRAPH



Maximum Candela = 2786.714 Located At Horizontal Angle = 0, Vertical Angle = 25  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270)  
# 2 - Horizontal Cone Through Vertical Angle (25) (Through Max. Cd.)