



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 192_168_37_234-15_50_16-MERGED.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from UL #13537338.03 & #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-OW-CSU-RW-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_SOURCE TYPE] LED

[_SEARCH_APPLICATION] INDOOR, DIRECT, INDIRECT

[_SEARCH_MOUNTING] WALL

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5072
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	101
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>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>
0	1757.007	1757.007	1757.007	1757.007	1757.007	1757.007	1757.007	1757.007	1757.007
5	1714.274	1714.274	1714.274	1714.274	1714.274	1714.274	1714.274	1714.274	1714.274
10	1645.243	1645.243	1645.243	1645.243	1645.243	1645.243	1645.243	1645.243	1645.243
15	1566.350	1566.350	1566.350	1566.350	1566.350	1566.350	1566.350	1566.350	1566.350
20	1498.634	1498.634	1498.634	1498.634	1498.634	1498.634	1498.634	1498.634	1498.634
25	1374.706	1374.706	1374.706	1374.706	1374.706	1374.706	1374.706	1374.706	1374.706
30	1076.229	1076.229	1076.229	1076.229	1076.229	1076.229	1076.229	1076.229	1076.229
35	647.907	647.907	647.907	647.907	647.907	647.907	647.907	647.907	647.907
40	451.825	451.825	451.825	451.825	451.825	451.825	451.825	451.825	451.825
45	380.000	380.000	380.000	380.000	380.000	380.000	380.000	380.000	380.000
50	322.310	322.310	322.310	322.310	322.310	322.310	322.310	322.310	322.310
55	257.059	257.059	257.059	257.059	257.059	257.059	257.059	257.059	257.059
60	191.315	191.315	191.315	191.315	191.315	191.315	191.315	191.315	191.315
65	133.625	133.625	133.625	133.625	133.625	133.625	133.625	133.625	133.625
70	85.303	85.303	85.303	85.303	85.303	85.303	85.303	85.303	85.303
75	50.130	50.130	50.130	50.130	50.130	50.130	50.130	50.130	50.130
80	29.749	29.749	29.749	29.749	29.749	29.749	29.749	29.749	29.749
85	13.313	13.313	13.313	13.313	13.313	13.313	13.313	13.313	13.313
90	6.913	6.913	6.913	6.913	6.913	6.913	6.913	6.913	6.913
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	604.79	N.A.	11.90
0-30	1216.31	N.A.	24.00
0-40	1653.69	N.A.	32.60
0-60	2179.23	N.A.	43.00
0-80	2370.43	N.A.	46.70
0-90	2387.67	N.A.	47.10
10-90	2225.99	N.A.	43.90
20-40	1048.9	N.A.	20.70
20-50	1344.83	N.A.	26.50
40-70	659.97	N.A.	13.00
60-80	191.20	N.A.	3.80
70-80	56.77	N.A.	1.10
80-90	17.24	N.A.	0.30
90-110	16.75	N.A.	0.30
90-120	31.94	N.A.	0.60
90-130	61.32	N.A.	1.20
90-150	851.07	N.A.	16.80
90-180	2684.24	N.A.	52.90
110-180	2667.49	N.A.	52.60
0-180	5071.91	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	161.68
10-20	443.11
20-30	611.53
30-40	437.37
40-50	295.93
50-60	229.61
60-70	134.43
70-80	56.77
80-90	17.24
90-100	7.12
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	106	106	106	106	98	98	98	98	82	82	82	67	67	67	53	53	53	47
1	98	94	91	88	90	87	84	82	73	71	69	61	59	58	49	48	47	42
2	91	84	79	74	83	78	73	69	66	62	60	55	53	51	45	43	42	37
3	84	75	69	63	77	70	64	59	59	55	52	50	47	44	41	39	37	33
4	77	67	60	55	71	63	57	52	54	49	45	45	42	39	38	35	33	30
5	71	61	54	48	66	57	50	46	49	44	40	42	38	35	35	32	30	27
6	66	55	48	43	61	52	45	40	45	40	36	38	35	32	32	30	27	25
7	62	51	43	38	57	47	41	36	41	36	32	35	32	29	30	27	25	23
8	58	46	39	34	53	43	37	33	38	33	29	33	29	26	28	25	23	21
9	54	43	36	31	50	40	34	30	35	30	27	30	27	24	26	23	21	19
10	51	40	33	28	47	37	31	27	33	28	25	28	25	22	24	22	20	18

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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	7.3	8.1	8.3	9.1	10.4	UGR Viewed Endwise	7.3	8.1	8.3	9.1	10.4
	3H	8.0	8.6	9.0	9.6	11.0		8.0	8.6	9.0	9.6	11.0
	4H	8.1	8.7	9.1	9.7	11.1		8.1	8.7	9.1	9.7	11.1
	6H	8.1	8.7	9.1	9.7	11.0		8.1	8.7	9.1	9.7	11.0
	8H	8.1	8.6	9.1	9.6	11.0		8.1	8.6	9.1	9.6	11.0
	12H	8.0	8.5	9.1	9.6	10.9		8.0	8.5	9.1	9.6	10.9

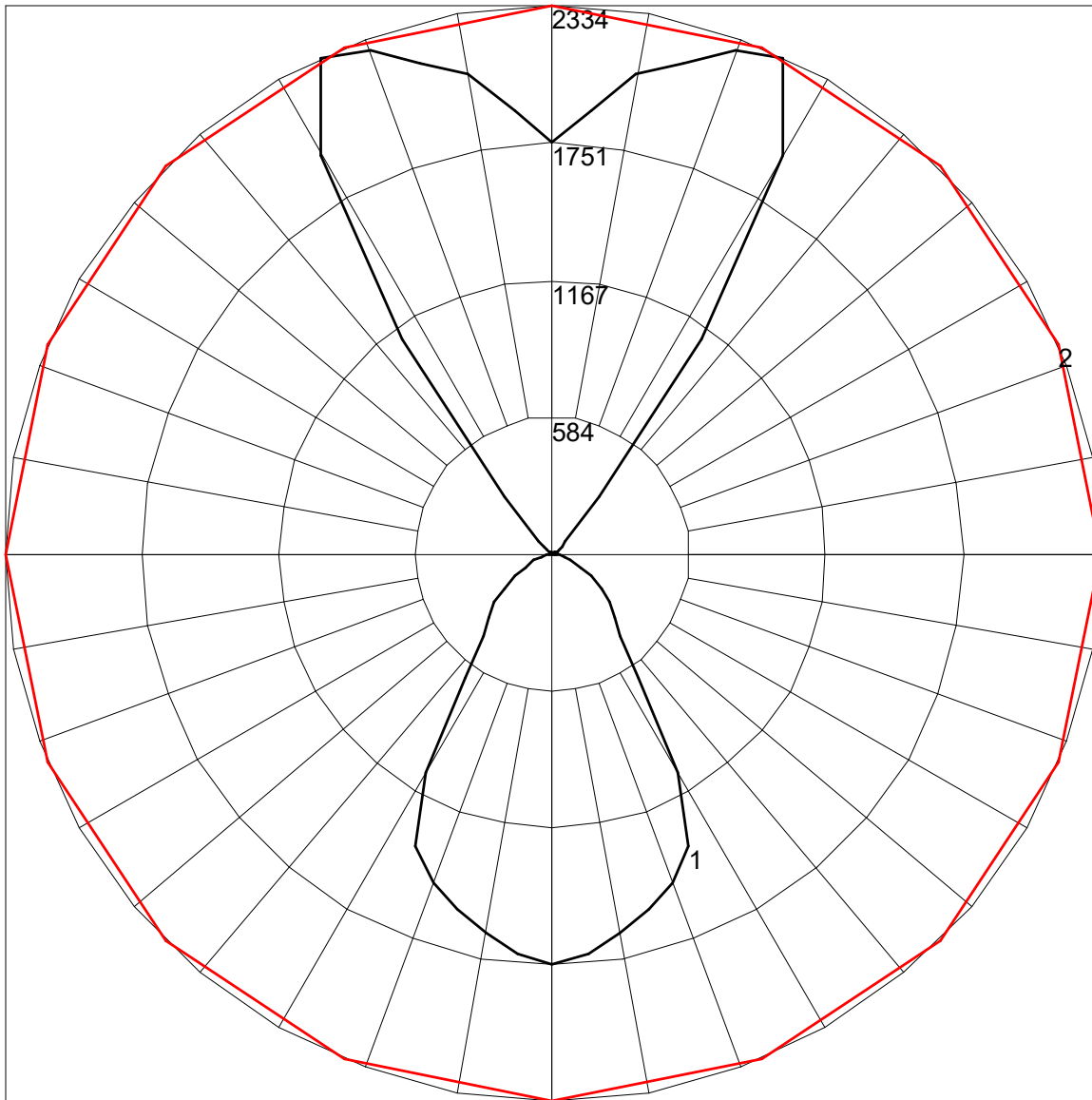
4H	2H	7.4	8.1	8.5	9.1	10.4	7.4	8.1	8.5	9.1	10.4
	3H	8.2	8.7	9.2	9.7	11.1	8.2	8.7	9.2	9.7	11.1
	4H	8.3	8.8	9.4	9.8	11.2	8.3	8.8	9.4	9.8	11.2
	6H	8.4	8.8	9.4	9.8	11.2	8.4	8.8	9.4	9.8	11.2
	8H	8.4	8.8	9.4	9.8	11.2	8.4	8.8	9.4	9.8	11.2
	12H	8.3	8.7	9.4	9.7	11.1	8.3	8.7	9.4	9.7	11.1

8H	4H	8.3	8.7	9.3	9.7	11.1	8.3	8.7	9.3	9.7	11.1
	6H	8.4	8.7	9.4	9.8	11.2	8.4	8.7	9.4	9.8	11.2
	8H	8.4	8.7	9.5	9.7	11.1	8.4	8.7	9.5	9.7	11.1
	12H	8.4	8.6	9.5	9.7	11.1	8.4	8.6	9.5	9.7	11.1

12H	4H	8.2	8.6	9.3	9.6	11.0	8.2	8.6	9.3	9.6	11.0
	6H	8.3	8.6	9.4	9.7	11.1	8.3	8.6	9.4	9.7	11.1
	8H	8.3	8.6	9.4	9.7	11.1	8.3	8.6	9.4	9.7	11.1

Maximum UGR = 11.2

POLAR GRAPH



Maximum Candela = 2334.468 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.)