



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 192_168_37_234-15_1_13-MERGED.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from UL #13537338.03 & #12326812.07

[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-LW-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	5148
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	103
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	3889	3889	3889
55	2404	2404	2404
65	1276	1276	1276
75	555	555	555
85	123	123	123

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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	1560.537	1560.537	1560.537	1560.537	1560.537	1560.537	1560.537	1560.537	1560.537
5	1535.871	1535.871	1535.871	1535.871	1535.871	1535.871	1535.871	1535.871	1535.871
10	1516.390	1516.390	1516.390	1516.390	1516.390	1516.390	1516.390	1516.390	1516.390
15	1499.265	1499.265	1499.265	1499.265	1499.265	1499.265	1499.265	1499.265	1499.265
20	1449.620	1449.620	1449.620	1449.620	1449.620	1449.620	1449.620	1449.620	1449.620
25	1292.828	1292.828	1292.828	1292.828	1292.828	1292.828	1292.828	1292.828	1292.828
30	989.770	989.770	989.770	989.770	989.770	989.770	989.770	989.770	989.770
35	660.475	660.475	660.475	660.475	660.475	660.475	660.475	660.475	660.475
40	517.979	517.979	517.979	517.979	517.979	517.979	517.979	517.979	517.979
45	441.783	441.783	441.783	441.783	441.783	441.783	441.783	441.783	441.783
50	371.556	371.556	371.556	371.556	371.556	371.556	371.556	371.556	371.556
55	298.345	298.345	298.345	298.345	298.345	298.345	298.345	298.345	298.345
60	227.804	227.804	227.804	227.804	227.804	227.804	227.804	227.804	227.804
65	167.004	167.004	167.004	167.004	167.004	167.004	167.004	167.004	167.004
70	115.127	115.127	115.127	115.127	115.127	115.127	115.127	115.127	115.127
75	74.170	74.170	74.170	74.170	74.170	74.170	74.170	74.170	74.170
80	42.387	42.387	42.387	42.387	42.387	42.387	42.387	42.387	42.387
85	16.276	16.276	16.276	16.276	16.276	16.276	16.276	16.276	16.276
90	6.150	6.150	6.150	6.150	6.150	6.150	6.150	6.150	6.150
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	568.12	N.A.	11.00
0-30	1144.62	N.A.	22.20
0-40	1584.25	N.A.	30.80
0-60	2193.58	N.A.	42.60
0-80	2441.66	N.A.	47.40
0-90	2463.74	N.A.	47.90
10-90	2317.53	N.A.	45.00
20-40	1016.12	N.A.	19.70
20-50	1358.18	N.A.	26.40
40-70	776.75	N.A.	15.10
60-80	248.08	N.A.	4.80
70-80	80.67	N.A.	1.60
80-90	22.08	N.A.	0.40
90-110	16.54	N.A.	0.30
90-120	31.73	N.A.	0.60
90-130	61.11	N.A.	1.20
90-150	850.86	N.A.	16.50
90-180	2684.03	N.A.	52.10
110-180	2667.49	N.A.	51.80
0-180	5147.77	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	146.21
10-20	421.92
20-30	576.50
30-40	439.63
40-50	342.05
50-60	267.28
60-70	167.42
70-80	80.67
80-90	22.08
90-100	6.91
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	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	8.5	9.2	9.4	10.2	11.5	8.5	9.2	9.4	10.2	11.5
	3H	9.3	9.9	10.3	10.9	12.3	9.3	9.9	10.3	10.9	12.3
	4H	9.4	10.1	10.5	11.1	12.4	9.4	10.1	10.5	11.1	12.4
	6H	9.5	10.1	10.5	11.1	12.5	9.5	10.1	10.5	11.1	12.5
	8H	9.5	10.1	10.5	11.1	12.4	9.5	10.1	10.5	11.1	12.4
	12H	9.5	10.0	10.5	11.0	12.4	9.5	10.0	10.5	11.0	12.4

UGR Viewed Endwise

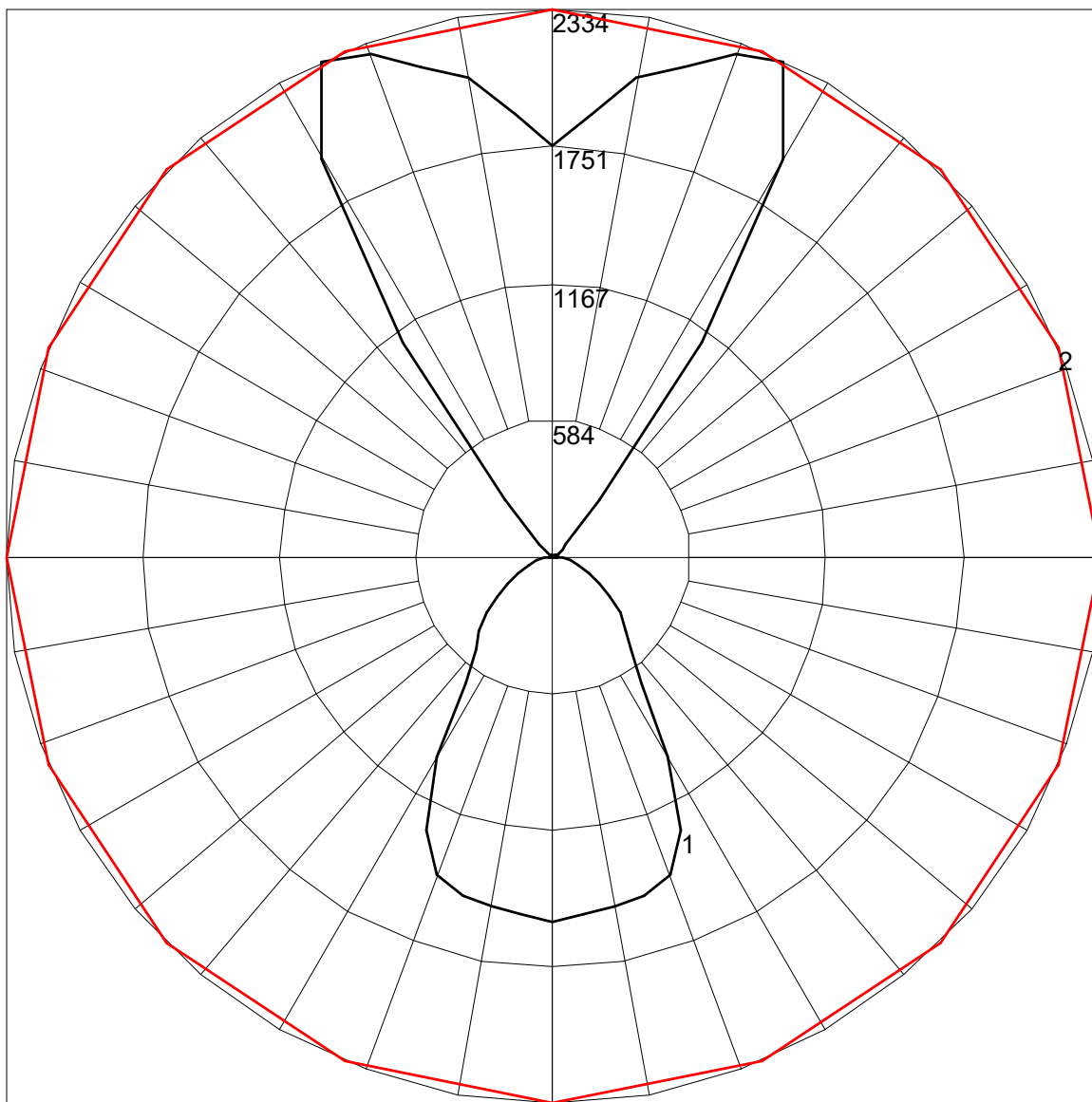
4H	2H	8.6	9.3	9.6	10.3	11.6	8.6	9.3	9.6	10.3	11.6
	3H	9.6	10.1	10.6	11.1	12.5	9.6	10.1	10.6	11.1	12.5
	4H	9.8	10.3	10.8	11.3	12.7	9.8	10.3	10.8	11.3	12.7
	6H	9.9	10.3	11.0	11.4	12.8	9.9	10.3	11.0	11.4	12.8
	8H	9.9	10.3	11.0	11.4	12.7	9.9	10.3	11.0	11.4	12.7
	12H	9.9	10.2	10.9	11.3	12.7	9.9	10.2	10.9	11.3	12.7

8H	4H	9.8	10.2	10.8	11.2	12.6	9.8	10.2	10.8	11.2	12.6
	6H	10.0	10.3	11.0	11.4	12.7	10.0	10.3	11.0	11.4	12.7
	8H	10.0	10.3	11.1	11.3	12.7	10.0	10.3	11.1	11.3	12.7
	12H	10.0	10.2	11.0	11.3	12.7	10.0	10.2	11.0	11.3	12.7

12H	4H	9.7	10.1	10.8	11.2	12.5	9.7	10.1	10.8	11.2	12.5
	6H	9.9	10.2	11.0	11.3	12.7	9.9	10.2	11.0	11.3	12.7
	8H	10.0	10.2	11.0	11.3	12.7	10.0	10.2	11.0	11.3	12.7

Maximum UGR = 12.8

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.)