



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 192_168_37_234-15_45_25-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] 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-RW-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	4697
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	94
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	3099	3099	3099
55	1919	1919	1919
65	946	946	946
75	348	348	348
85	93	93	93

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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	1627.543	1627.543	1627.543	1627.543	1627.543	1627.543	1627.543	1627.543	1627.543
5	1587.958	1587.958	1587.958	1587.958	1587.958	1587.958	1587.958	1587.958	1587.958
10	1524.013	1524.013	1524.013	1524.013	1524.013	1524.013	1524.013	1524.013	1524.013
15	1450.934	1450.934	1450.934	1450.934	1450.934	1450.934	1450.934	1450.934	1450.934
20	1388.207	1388.207	1388.207	1388.207	1388.207	1388.207	1388.207	1388.207	1388.207
25	1273.411	1273.411	1273.411	1273.411	1273.411	1273.411	1273.411	1273.411	1273.411
30	996.927	996.927	996.927	996.927	996.927	996.927	996.927	996.927	996.927
35	600.166	600.166	600.166	600.166	600.166	600.166	600.166	600.166	600.166
40	418.533	418.533	418.533	418.533	418.533	418.533	418.533	418.533	418.533
45	352.000	352.000	352.000	352.000	352.000	352.000	352.000	352.000	352.000
50	298.560	298.560	298.560	298.560	298.560	298.560	298.560	298.560	298.560
55	238.118	238.118	238.118	238.118	238.118	238.118	238.118	238.118	238.118
60	177.218	177.218	177.218	177.218	177.218	177.218	177.218	177.218	177.218
65	123.779	123.779	123.779	123.779	123.779	123.779	123.779	123.779	123.779
70	79.017	79.017	79.017	79.017	79.017	79.017	79.017	79.017	79.017
75	46.436	46.436	46.436	46.436	46.436	46.436	46.436	46.436	46.436
80	27.557	27.557	27.557	27.557	27.557	27.557	27.557	27.557	27.557
85	12.332	12.332	12.332	12.332	12.332	12.332	12.332	12.332	12.332
90	6.402	6.402	6.402	6.402	6.402	6.402	6.402	6.402	6.402
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	560.22	N.A.	11.90
0-30	1126.69	N.A.	24.00
0-40	1531.84	N.A.	32.60
0-60	2018.66	N.A.	43.00
0-80	2195.77	N.A.	46.70
0-90	2211.74	N.A.	47.10
10-90	2061.97	N.A.	43.90
20-40	971.61	N.A.	20.70
20-50	1245.74	N.A.	26.50
40-70	611.34	N.A.	13.00
60-80	177.11	N.A.	3.80
70-80	52.59	N.A.	1.10
80-90	15.97	N.A.	0.30
90-110	15.50	N.A.	0.30
90-120	29.57	N.A.	0.60
90-130	56.78	N.A.	1.20
90-150	788.00	N.A.	16.80
90-180	2485.29	N.A.	52.90
110-180	2469.79	N.A.	52.60
0-180	4697.03	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	149.77
10-20	410.46
20-30	566.47
30-40	405.15
40-50	274.13
50-60	212.70
60-70	124.52
70-80	52.59
80-90	15.97
90-100	6.59
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	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	63	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	7.1	7.9	8.1	8.9	10.2	UGR Viewed Endwise	7.1	7.9	8.1	8.9	10.2
	3H	7.8	8.4	8.8	9.4	10.8		7.8	8.4	8.8	9.4	10.8
	4H	7.9	8.5	8.9	9.5	10.9		7.9	8.5	8.9	9.5	10.9
	6H	7.9	8.5	8.9	9.5	10.8		7.9	8.5	8.9	9.5	10.8
	8H	7.9	8.4	8.9	9.4	10.8		7.9	8.4	8.9	9.4	10.8
	12H	7.8	8.3	8.9	9.4	10.7		7.8	8.3	8.9	9.4	10.7

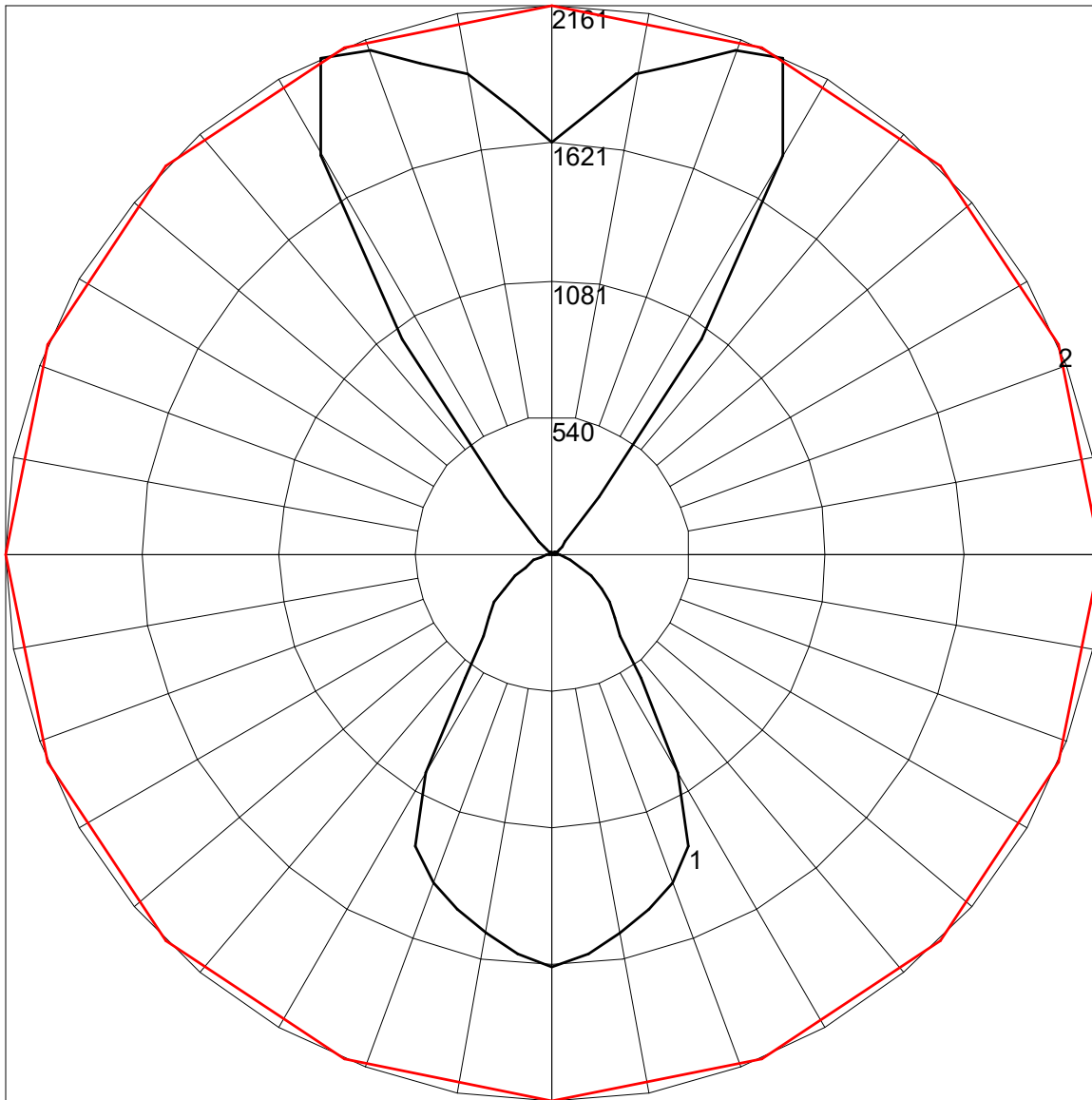
4H	2H	7.2	7.9	8.3	8.9	10.2	7.2	7.9	8.3	8.9	10.2
	3H	8.0	8.5	9.0	9.5	10.9	8.0	8.5	9.0	9.5	10.9
	4H	8.1	8.6	9.2	9.6	11.0	8.1	8.6	9.2	9.6	11.0
	6H	8.2	8.6	9.2	9.6	11.0	8.2	8.6	9.2	9.6	11.0
	8H	8.2	8.6	9.2	9.6	11.0	8.2	8.6	9.2	9.6	11.0
	12H	8.1	8.5	9.2	9.5	10.9	8.1	8.5	9.2	9.5	10.9

8H	4H	8.1	8.5	9.1	9.5	10.9	8.1	8.5	9.1	9.5	10.9
	6H	8.2	8.5	9.2	9.6	11.0	8.2	8.5	9.2	9.6	11.0
	8H	8.2	8.5	9.3	9.5	10.9	8.2	8.5	9.3	9.5	10.9
	12H	8.2	8.4	9.3	9.5	10.9	8.2	8.4	9.3	9.5	10.9

12H	4H	8.0	8.4	9.1	9.4	10.8	8.0	8.4	9.1	9.4	10.8
	6H	8.1	8.4	9.2	9.5	10.9	8.1	8.4	9.2	9.5	10.9
	8H	8.1	8.4	9.2	9.5	10.9	8.1	8.4	9.2	9.5	10.9

Maximum UGR = 11.0

POLAR GRAPH



Maximum Candela = 2161.448 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.)