



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 192_168_37_234-15_37_31-MERGED.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from UL #13537338.03

[TESTLAB] UL Verification Services Inc.

[ISSUEDATE] 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-RM-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	4911
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	98
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	893	893	893
55	446	446	446
65	232	232	232
75	96	96	96
85	27	27	27

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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	5767.611	5767.611	5767.611	5767.611	5767.611	5767.611	5767.611	5767.611	5767.611
5	5524.229	5524.229	5524.229	5524.229	5524.229	5524.229	5524.229	5524.229	5524.229
10	4823.504	4823.504	4823.504	4823.504	4823.504	4823.504	4823.504	4823.504	4823.504
15	3569.152	3569.152	3569.152	3569.152	3569.152	3569.152	3569.152	3569.152	3569.152
20	2146.306	2146.306	2146.306	2146.306	2146.306	2146.306	2146.306	2146.306	2146.306
25	1131.859	1131.859	1131.859	1131.859	1131.859	1131.859	1131.859	1131.859	1131.859
30	583.314	583.314	583.314	583.314	583.314	583.314	583.314	583.314	583.314
35	300.215	300.215	300.215	300.215	300.215	300.215	300.215	300.215	300.215
40	161.274	161.274	161.274	161.274	161.274	161.274	161.274	161.274	161.274
45	101.498	101.498	101.498	101.498	101.498	101.498	101.498	101.498	101.498
50	72.747	72.747	72.747	72.747	72.747	72.747	72.747	72.747	72.747
55	55.363	55.363	55.363	55.363	55.363	55.363	55.363	55.363	55.363
60	41.990	41.990	41.990	41.990	41.990	41.990	41.990	41.990	41.990
65	30.356	30.356	30.356	30.356	30.356	30.356	30.356	30.356	30.356
70	20.326	20.326	20.326	20.326	20.326	20.326	20.326	20.326	20.326
75	12.838	12.838	12.838	12.838	12.838	12.838	12.838	12.838	12.838
80	7.890	7.890	7.890	7.890	7.890	7.890	7.890	7.890	7.890
85	3.611	3.611	3.611	3.611	3.611	3.611	3.611	3.611	3.611
90	5.414	5.414	5.414	5.414	5.414	5.414	5.414	5.414	5.414
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	1474.04	N.A.	30.00
0-30	2034.92	N.A.	41.40
0-40	2242.02	N.A.	45.60
0-60	2376.24	N.A.	48.40
0-80	2420.88	N.A.	49.30
0-90	2426.47	N.A.	49.40
10-90	1921.31	N.A.	39.10
20-40	767.98	N.A.	15.60
20-50	851.84	N.A.	17.30
40-70	164.64	N.A.	3.40
60-80	44.64	N.A.	0.90
70-80	14.21	N.A.	0.30
80-90	5.60	N.A.	0.10
90-110	15.23	N.A.	0.30
90-120	29.30	N.A.	0.60
90-130	56.51	N.A.	1.20
90-150	787.73	N.A.	16.00
90-180	2485.02	N.A.	50.60
110-180	2469.79	N.A.	50.30
0-180	4911.49	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	505.16
10-20	968.88
20-30	560.88
30-40	207.10
40-50	83.86
50-60	50.36
60-70	30.42
70-80	14.21
80-90	5.60
90-100	6.32
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	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	49
1	100	97	94	91	92	90	87	85	76	75	73	64	63	62	53	52	52	47
2	94	88	83	80	87	82	78	75	71	68	66	60	58	57	50	49	48	44
3	88	81	75	71	81	75	71	67	66	62	59	56	54	52	48	47	45	42
4	83	74	68	64	77	70	65	60	61	57	54	53	51	49	46	44	43	40
5	78	69	62	58	72	65	59	55	57	53	50	50	47	45	44	42	40	38
6	73	64	58	53	68	60	55	51	54	50	47	48	45	42	42	40	38	36
7	69	60	53	49	65	57	51	47	51	47	44	45	42	40	40	38	37	34
8	66	56	50	46	62	53	48	44	48	44	41	43	40	38	38	36	35	33
9	62	53	47	43	59	50	45	41	46	41	39	41	38	36	37	35	33	31
10	60	50	44	40	56	48	42	39	43	39	37	39	36	34	36	33	32	30

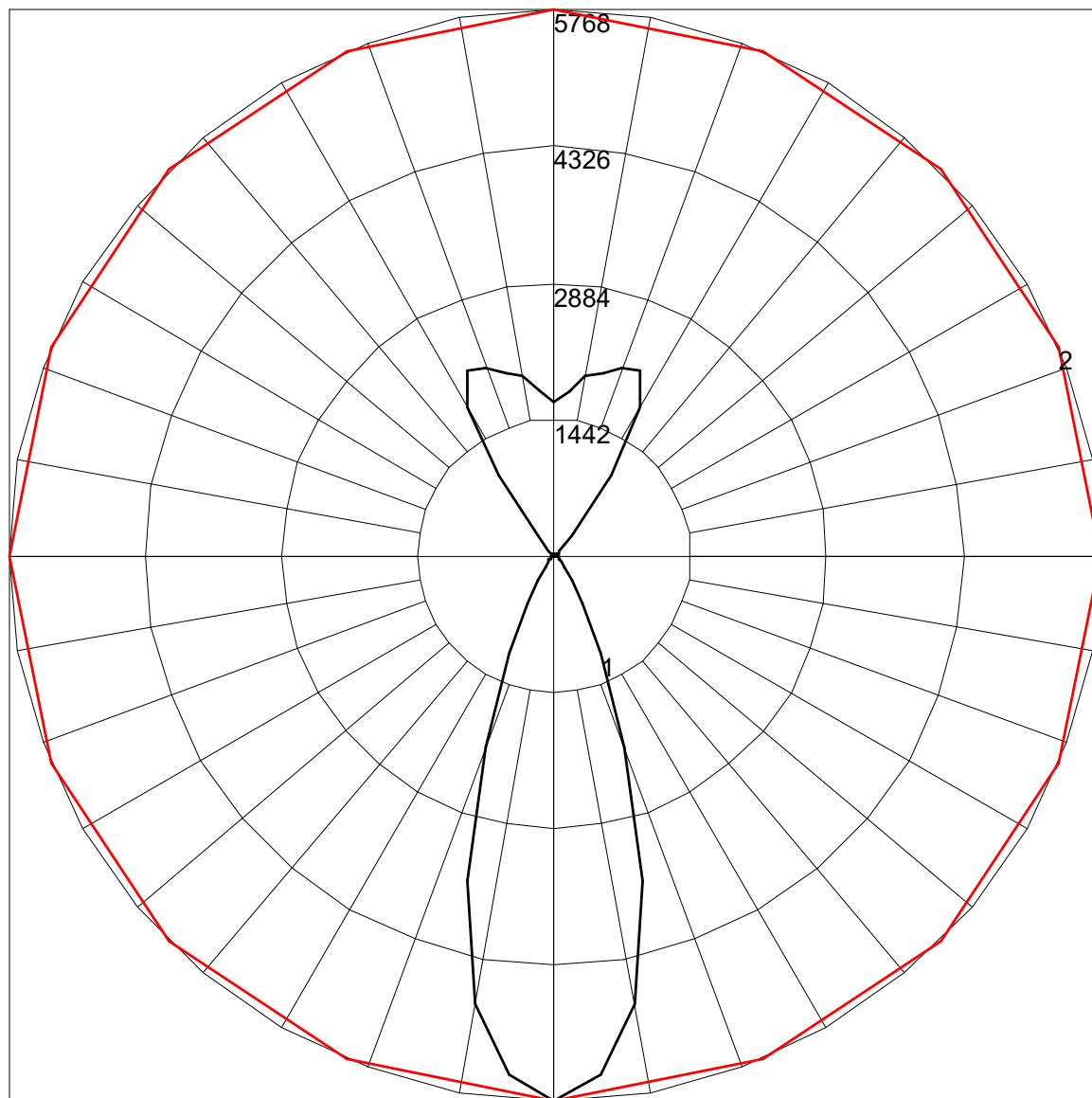
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UGR TABLE - CORRECTED

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					UGR Viewed Endwise				
X=2H	Y=2H	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
	3H	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
	4H	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
	6H	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
	8H	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
	12H	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
4H	2H	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
	3H	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
	4H	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
	6H	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
	8H	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
	12H	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
8H	4H	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
	6H	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
	8H	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
	12H	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
12H	4H	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
	6H	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
	8H	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5

Maximum UGR = 5.5

POLAR GRAPH



Maximum Candela = 5767.611 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.)