



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 192_168_37_234-15_42_0-MERGED.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from UL #13537338.03 & #12326812.15

[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-RN-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	4955
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	99
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	820	820	820
55	398	398	398
65	189	189	189
75	73	73	73
85	20	20	20

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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	8920.010	8920.010	8920.010	8920.010	8920.010	8920.010	8920.010	8920.010	8920.010
5	8086.203	8086.203	8086.203	8086.203	8086.203	8086.203	8086.203	8086.203	8086.203
10	5977.162	5977.162	5977.162	5977.162	5977.162	5977.162	5977.162	5977.162	5977.162
15	3528.766	3528.766	3528.766	3528.766	3528.766	3528.766	3528.766	3528.766	3528.766
20	1800.174	1800.174	1800.174	1800.174	1800.174	1800.174	1800.174	1800.174	1800.174
25	866.682	866.682	866.682	866.682	866.682	866.682	866.682	866.682	866.682
30	423.266	423.266	423.266	423.266	423.266	423.266	423.266	423.266	423.266
35	228.270	228.270	228.270	228.270	228.270	228.270	228.270	228.270	228.270
40	137.996	137.996	137.996	137.996	137.996	137.996	137.996	137.996	137.996
45	93.190	93.190	93.190	93.190	93.190	93.190	93.190	93.190	93.190
50	66.811	66.811	66.811	66.811	66.811	66.811	66.811	66.811	66.811
55	49.445	49.445	49.445	49.445	49.445	49.445	49.445	49.445	49.445
60	36.322	36.322	36.322	36.322	36.322	36.322	36.322	36.322	36.322
65	24.789	24.789	24.789	24.789	24.789	24.789	24.789	24.789	24.789
70	15.907	15.907	15.907	15.907	15.907	15.907	15.907	15.907	15.907
75	9.809	9.809	9.809	9.809	9.809	9.809	9.809	9.809	9.809
80	5.965	5.965	5.965	5.965	5.965	5.965	5.965	5.965	5.965
85	2.651	2.651	2.651	2.651	2.651	2.651	2.651	2.651	2.651
90	5.277	5.277	5.277	5.277	5.277	5.277	5.277	5.277	5.277
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	1709.46	N.A.	34.50
0-30	2152.41	N.A.	43.40
0-40	2309.46	N.A.	46.60
0-60	2429.7	N.A.	49.00
0-80	2465.8	N.A.	49.80
0-90	2470.31	N.A.	49.90
10-90	1763.92	N.A.	35.60
20-40	600.00	N.A.	12.10
20-50	675.14	N.A.	13.60
40-70	145.40	N.A.	2.90
60-80	36.10	N.A.	0.70
70-80	10.94	N.A.	0.20
80-90	4.51	N.A.	0.10
90-110	15.20	N.A.	0.30
90-120	29.26	N.A.	0.60
90-130	56.47	N.A.	1.10
90-150	787.69	N.A.	15.90
90-180	2484.98	N.A.	50.10
110-180	2469.79	N.A.	49.80
0-180	4955.3	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	706.40
10-20	1003.06
20-30	442.95
30-40	157.05
40-50	75.14
50-60	45.10
60-70	25.16
70-80	10.94
80-90	4.51
90-100	6.29
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	50
1	100	97	94	92	93	90	88	86	77	75	74	65	64	63	54	53	53	47
2	94	89	84	81	87	83	79	76	71	69	67	61	59	58	51	50	50	45
3	89	82	76	72	82	76	72	68	67	63	61	58	56	54	49	48	47	43
4	84	76	70	65	78	71	66	62	63	59	56	55	52	50	47	46	45	41
5	79	70	64	60	74	66	61	57	59	55	52	52	49	47	45	44	42	40
6	75	66	60	55	70	62	57	53	56	52	49	50	47	45	44	42	41	38
7	71	62	56	51	67	59	53	50	53	49	46	47	44	42	42	40	39	37
8	67	58	52	48	63	55	50	47	50	46	43	45	42	40	41	39	37	35
9	64	55	49	45	61	53	47	44	48	44	41	44	41	39	39	37	36	34
10	62	52	47	43	58	50	45	42	46	42	39	42	39	37	38	36	35	33

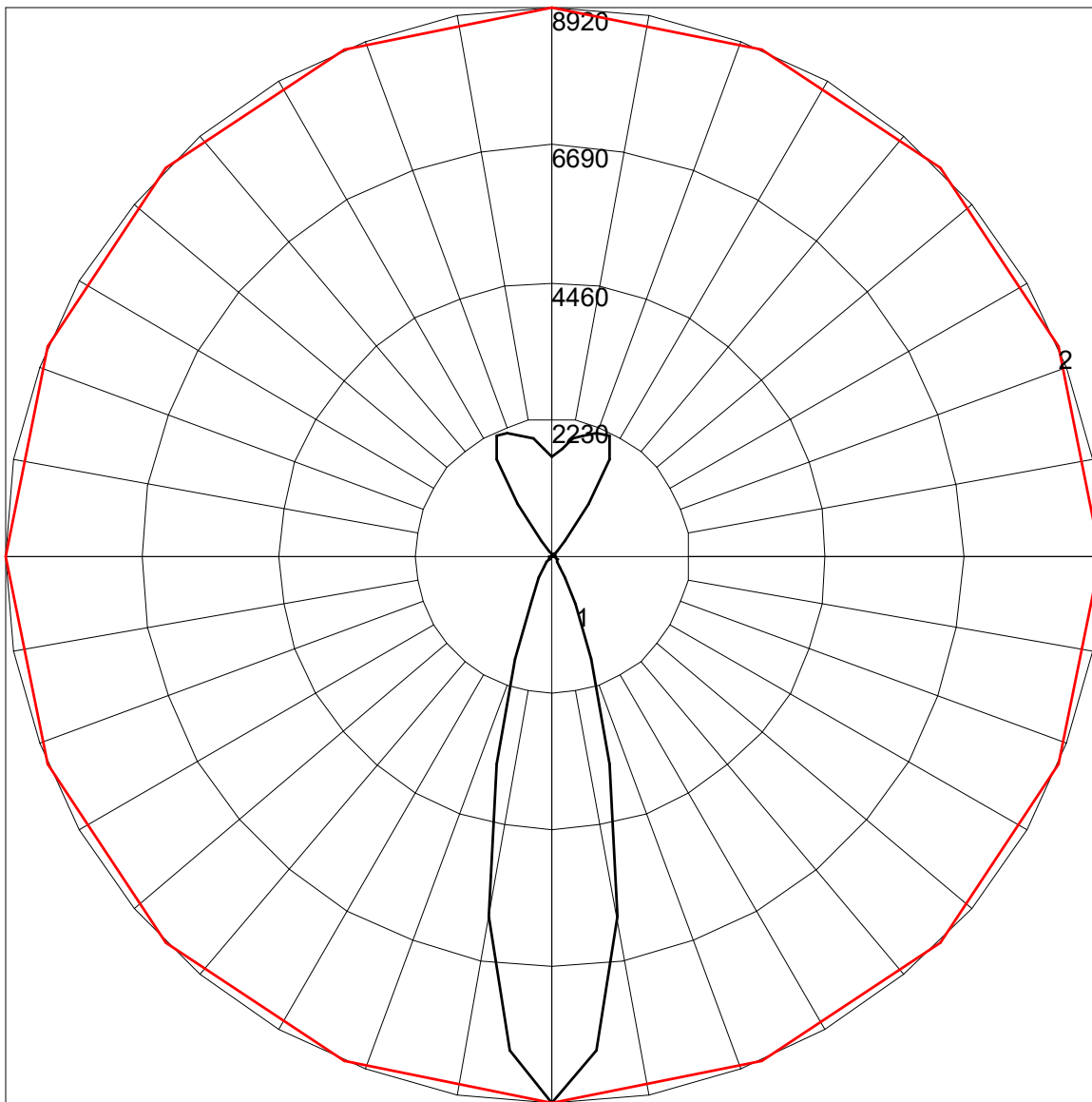
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UGR TABLE - CORRECTED

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	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
	3H	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
	4H	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
	6H	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
	8H	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
	12H	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
4H	2H	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
	3H	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
	4H	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
	6H	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
	8H	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
	12H	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
8H	4H	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
	6H	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
	8H	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
	12H	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
12H	4H	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
	6H	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
	8H	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6

Maximum UGR = 5.6

POLAR GRAPH



Maximum Candela = 8920.01 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.)