



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 192_168_37_234-15_5_42-MERGED.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from UL #13537338.03& #12326812.09

[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-LM-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	4979
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	100
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	1044	1044	1044
55	567	567	567
65	323	323	323
75	158	158	158
85	35	35	35

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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	5785.573	5785.573	5785.573	5785.573	5785.573	5785.573	5785.573	5785.573	5785.573
5	5558.845	5558.845	5558.845	5558.845	5558.845	5558.845	5558.845	5558.845	5558.845
10	4882.661	4882.661	4882.661	4882.661	4882.661	4882.661	4882.661	4882.661	4882.661
15	3638.323	3638.323	3638.323	3638.323	3638.323	3638.323	3638.323	3638.323	3638.323
20	2184.594	2184.594	2184.594	2184.594	2184.594	2184.594	2184.594	2184.594	2184.594
25	1129.641	1129.641	1129.641	1129.641	1129.641	1129.641	1129.641	1129.641	1129.641
30	566.154	566.154	566.154	566.154	566.154	566.154	566.154	566.154	566.154
35	295.414	295.414	295.414	295.414	295.414	295.414	295.414	295.414	295.414
40	172.314	172.314	172.314	172.314	172.314	172.314	172.314	172.314	172.314
45	118.566	118.566	118.566	118.566	118.566	118.566	118.566	118.566	118.566
50	89.891	89.891	89.891	89.891	89.891	89.891	89.891	89.891	89.891
55	70.419	70.419	70.419	70.419	70.419	70.419	70.419	70.419	70.419
60	55.215	55.215	55.215	55.215	55.215	55.215	55.215	55.215	55.215
65	42.278	42.278	42.278	42.278	42.278	42.278	42.278	42.278	42.278
70	30.942	30.942	30.942	30.942	30.942	30.942	30.942	30.942	30.942
75	21.072	21.072	21.072	21.072	21.072	21.072	21.072	21.072	21.072
80	12.270	12.270	12.270	12.270	12.270	12.270	12.270	12.270	12.270
85	4.668	4.668	4.668	4.668	4.668	4.668	4.668	4.668	4.668
90	5.279	5.279	5.279	5.279	5.279	5.279	5.279	5.279	5.279
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	1494.49	N.A.	30.00
0-30	2056.7	N.A.	41.30
0-40	2261.61	N.A.	45.40
0-60	2421.49	N.A.	48.60
0-80	2486.24	N.A.	49.90
0-90	2493.57	N.A.	50.10
10-90	1984.43	N.A.	39.90
20-40	767.12	N.A.	15.40
20-50	863.10	N.A.	17.30
40-70	202.12	N.A.	4.10
60-80	64.76	N.A.	1.30
70-80	22.52	N.A.	0.50
80-90	7.33	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.	15.80
90-180	2484.98	N.A.	49.90
110-180	2469.79	N.A.	49.60
0-180	4978.55	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	509.14
10-20	985.35
20-30	562.21
30-40	204.91
40-50	95.98
50-60	63.90
60-70	42.24
70-80	22.52
80-90	7.33
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	91	93	90	87	85	77	75	73	65	63	62	53	53	52	47
2	94	88	83	79	87	82	78	75	71	68	66	60	59	57	51	50	49	44
3	88	81	75	71	82	75	71	67	66	62	59	57	54	52	48	47	46	42
4	82	74	68	63	77	70	64	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	57	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	43	45	42	40	40	38	36	34
8	66	56	50	45	62	53	48	44	48	44	41	43	40	38	39	36	35	33
9	62	53	47	43	59	50	45	41	46	41	39	41	38	36	37	35	33	31
10	59	50	44	40	56	48	42	39	43	39	36	39	36	34	36	33	32	30

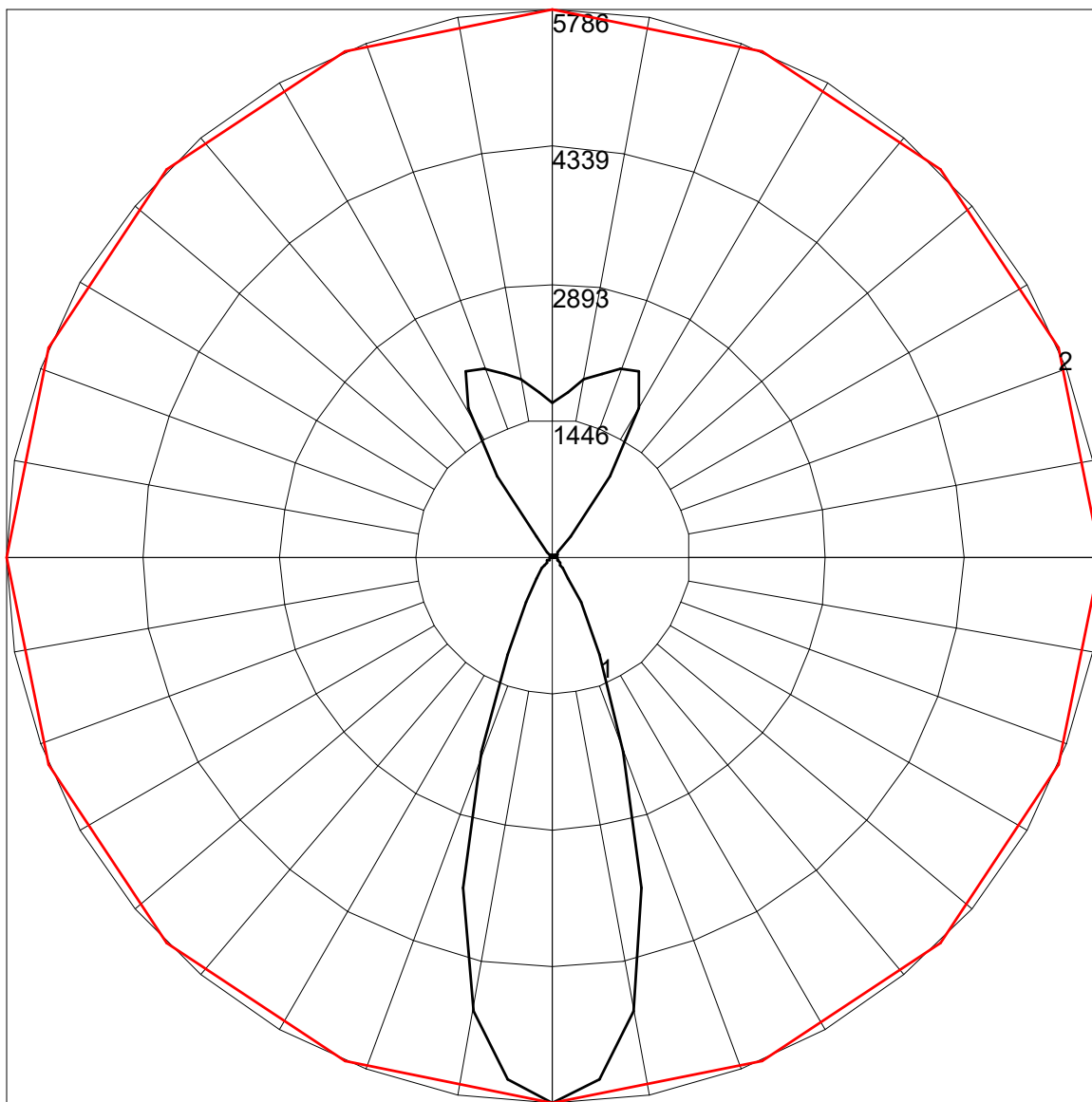
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UGR TABLE - CORRECTED

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	5.6	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 = 5785.573 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.)