



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 192_168_37_234-15_41_7-MERGED.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] GEN from UL #13537338.03
 [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-RM-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	5304
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	106
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	965	965	965
55	482	482	482
65	250	250	250
75	104	104	104
85	29	29	29

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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	6227.467	6227.467	6227.467	6227.467	6227.467	6227.467	6227.467	6227.467	6227.467
5	5964.681	5964.681	5964.681	5964.681	5964.681	5964.681	5964.681	5964.681	5964.681
10	5208.086	5208.086	5208.086	5208.086	5208.086	5208.086	5208.086	5208.086	5208.086
15	3853.724	3853.724	3853.724	3853.724	3853.724	3853.724	3853.724	3853.724	3853.724
20	2317.432	2317.432	2317.432	2317.432	2317.432	2317.432	2317.432	2317.432	2317.432
25	1222.103	1222.103	1222.103	1222.103	1222.103	1222.103	1222.103	1222.103	1222.103
30	629.822	629.822	629.822	629.822	629.822	629.822	629.822	629.822	629.822
35	324.152	324.152	324.152	324.152	324.152	324.152	324.152	324.152	324.152
40	174.132	174.132	174.132	174.132	174.132	174.132	174.132	174.132	174.132
45	109.591	109.591	109.591	109.591	109.591	109.591	109.591	109.591	109.591
50	78.547	78.547	78.547	78.547	78.547	78.547	78.547	78.547	78.547
55	59.777	59.777	59.777	59.777	59.777	59.777	59.777	59.777	59.777
60	45.338	45.338	45.338	45.338	45.338	45.338	45.338	45.338	45.338
65	32.776	32.776	32.776	32.776	32.776	32.776	32.776	32.776	32.776
70	21.947	21.947	21.947	21.947	21.947	21.947	21.947	21.947	21.947
75	13.861	13.861	13.861	13.861	13.861	13.861	13.861	13.861	13.861
80	8.519	8.519	8.519	8.519	8.519	8.519	8.519	8.519	8.519
85	3.898	3.898	3.898	3.898	3.898	3.898	3.898	3.898	3.898
90	5.847	5.847	5.847	5.847	5.847	5.847	5.847	5.847	5.847
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	1591.57	N.A.	30.00
0-30	2197.16	N.A.	41.40
0-40	2420.78	N.A.	45.60
0-60	2565.7	N.A.	48.40
0-80	2613.89	N.A.	49.30
0-90	2619.94	N.A.	49.40
10-90	2074.5	N.A.	39.10
20-40	829.21	N.A.	15.60
20-50	919.76	N.A.	17.30
40-70	177.77	N.A.	3.40
60-80	48.19	N.A.	0.90
70-80	15.35	N.A.	0.30
80-90	6.04	N.A.	0.10
90-110	16.45	N.A.	0.30
90-120	31.65	N.A.	0.60
90-130	61.03	N.A.	1.20
90-150	850.78	N.A.	16.00
90-180	2683.94	N.A.	50.60
110-180	2667.49	N.A.	50.30
0-180	5303.88	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	545.44
10-20	1046.13
20-30	605.59
30-40	223.61
40-50	90.55
50-60	54.37
60-70	32.85
70-80	15.35
80-90	6.04
90-100	6.83
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	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	59	50	44	40	56	48	42	39	43	39	37	39	36	34	36	33	32	30

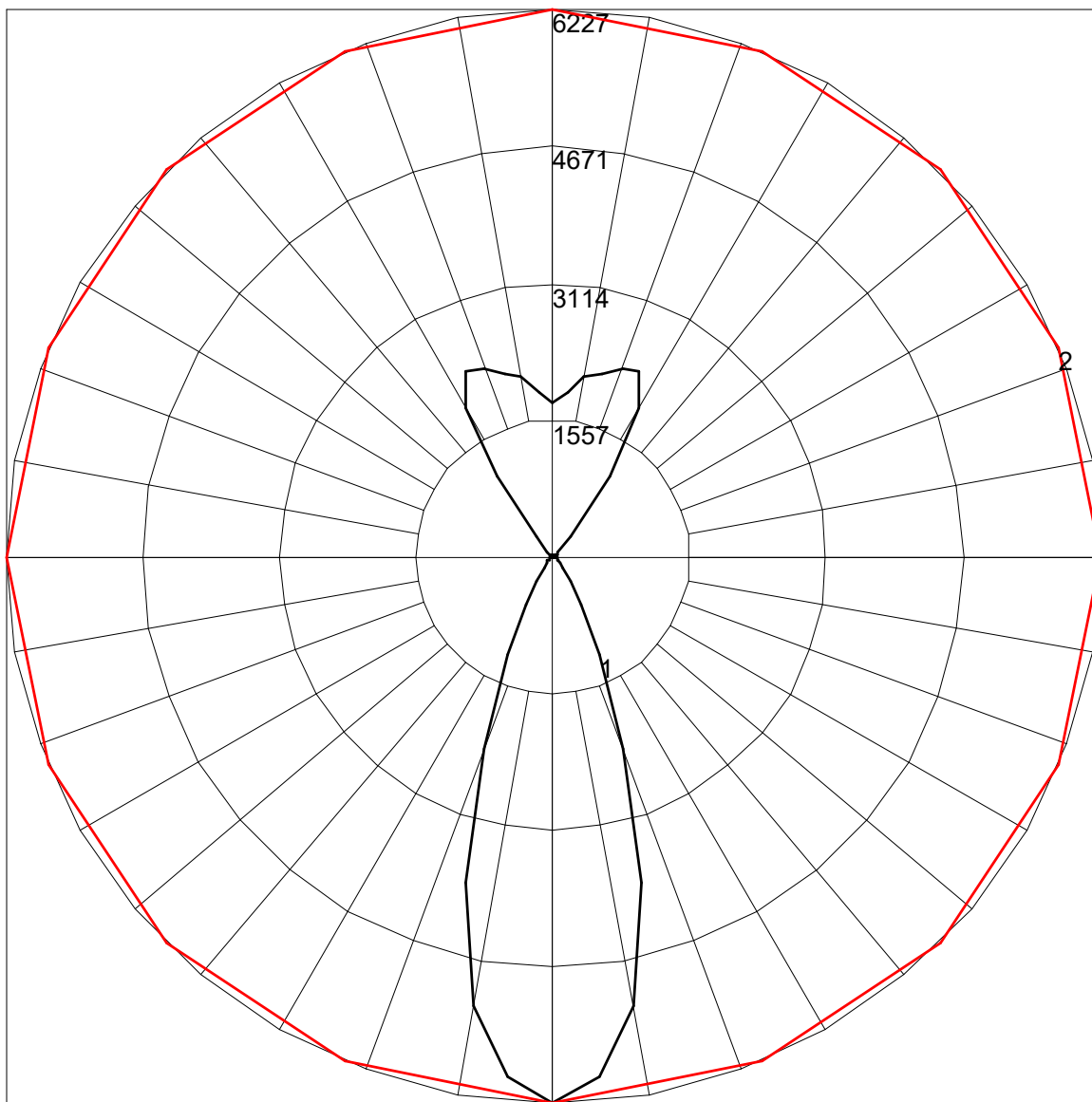
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UGR TABLE - CORRECTED

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	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8
	3H	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8
	4H	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8
	6H	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8
	8H	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8
	12H	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8
4H	2H	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8
	3H	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8
	4H	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8
	6H	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8
	8H	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8
	12H	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8
8H	4H	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8
	6H	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8
	8H	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8
	12H	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8
12H	4H	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8
	6H	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8
	8H	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8

Maximum UGR = 5.8

POLAR GRAPH



Maximum Candela = 6227.467 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.)