



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 192_168_37_234-14_54_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] 3-MAR-2021

[MANUFAC] WILLIAMS INDOOR

[MORE] H.E. WILLIAMS, INC. - CARTHAGE, MO

[LUMCAT] 8CRDI-TL-P29-835U-P29-83UD-xxx-POE PR-OW-CSU-LM-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	5376
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	108
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	1127	1127	1127
55	613	613	613
65	349	349	349
75	170	170	170
85	38	38	38

IES INDOOR REPORT
 PHOTOMETRIC FILENAME : 192_168_37_234-14_54_42-MERGED.IES

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	6246.056	6246.056	6246.056	6246.056	6246.056	6246.056	6246.056	6246.056	6246.056
5	6001.282	6001.282	6001.282	6001.282	6001.282	6001.282	6001.282	6001.282	6001.282
10	5271.280	5271.280	5271.280	5271.280	5271.280	5271.280	5271.280	5271.280	5271.280
15	3927.903	3927.903	3927.903	3927.903	3927.903	3927.903	3927.903	3927.903	3927.903
20	2358.469	2358.469	2358.469	2358.469	2358.469	2358.469	2358.469	2358.469	2358.469
25	1219.550	1219.550	1219.550	1219.550	1219.550	1219.550	1219.550	1219.550	1219.550
30	611.215	611.215	611.215	611.215	611.215	611.215	611.215	611.215	611.215
35	318.926	318.926	318.926	318.926	318.926	318.926	318.926	318.926	318.926
40	186.028	186.028	186.028	186.028	186.028	186.028	186.028	186.028	186.028
45	128.002	128.002	128.002	128.002	128.002	128.002	128.002	128.002	128.002
50	97.046	97.046	97.046	97.046	97.046	97.046	97.046	97.046	97.046
55	76.024	76.024	76.024	76.024	76.024	76.024	76.024	76.024	76.024
60	59.610	59.610	59.610	59.610	59.610	59.610	59.610	59.610	59.610
65	45.643	45.643	45.643	45.643	45.643	45.643	45.643	45.643	45.643
70	33.404	33.404	33.404	33.404	33.404	33.404	33.404	33.404	33.404
75	22.750	22.750	22.750	22.750	22.750	22.750	22.750	22.750	22.750
80	13.247	13.247	13.247	13.247	13.247	13.247	13.247	13.247	13.247
85	5.039	5.039	5.039	5.039	5.039	5.039	5.039	5.039	5.039
90	5.702	5.702	5.702	5.702	5.702	5.702	5.702	5.702	5.702
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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 192_168_37_234-14_54_42-MERGED.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1613.44	N.A.	30.00
0-30	2220.4	N.A.	41.30
0-40	2441.61	N.A.	45.40
0-60	2614.22	N.A.	48.60
0-80	2684.13	N.A.	49.90
0-90	2692.04	N.A.	50.10
10-90	2142.37	N.A.	39.90
20-40	828.17	N.A.	15.40
20-50	931.79	N.A.	17.30
40-70	218.20	N.A.	4.10
60-80	69.91	N.A.	1.30
70-80	24.31	N.A.	0.50
80-90	7.91	N.A.	0.10
90-110	16.41	N.A.	0.30
90-120	31.61	N.A.	0.60
90-130	60.99	N.A.	1.10
90-150	850.74	N.A.	15.80
90-180	2683.9	N.A.	49.90
110-180	2667.49	N.A.	49.60
0-180	5375.94	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	549.67
10-20	1063.77
20-30	606.95
30-40	221.22
40-50	103.62
50-60	68.98
60-70	45.60
70-80	24.31
80-90	7.91
90-100	6.79
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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 192_168_37_234-14_54_42-MERGED.IES

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

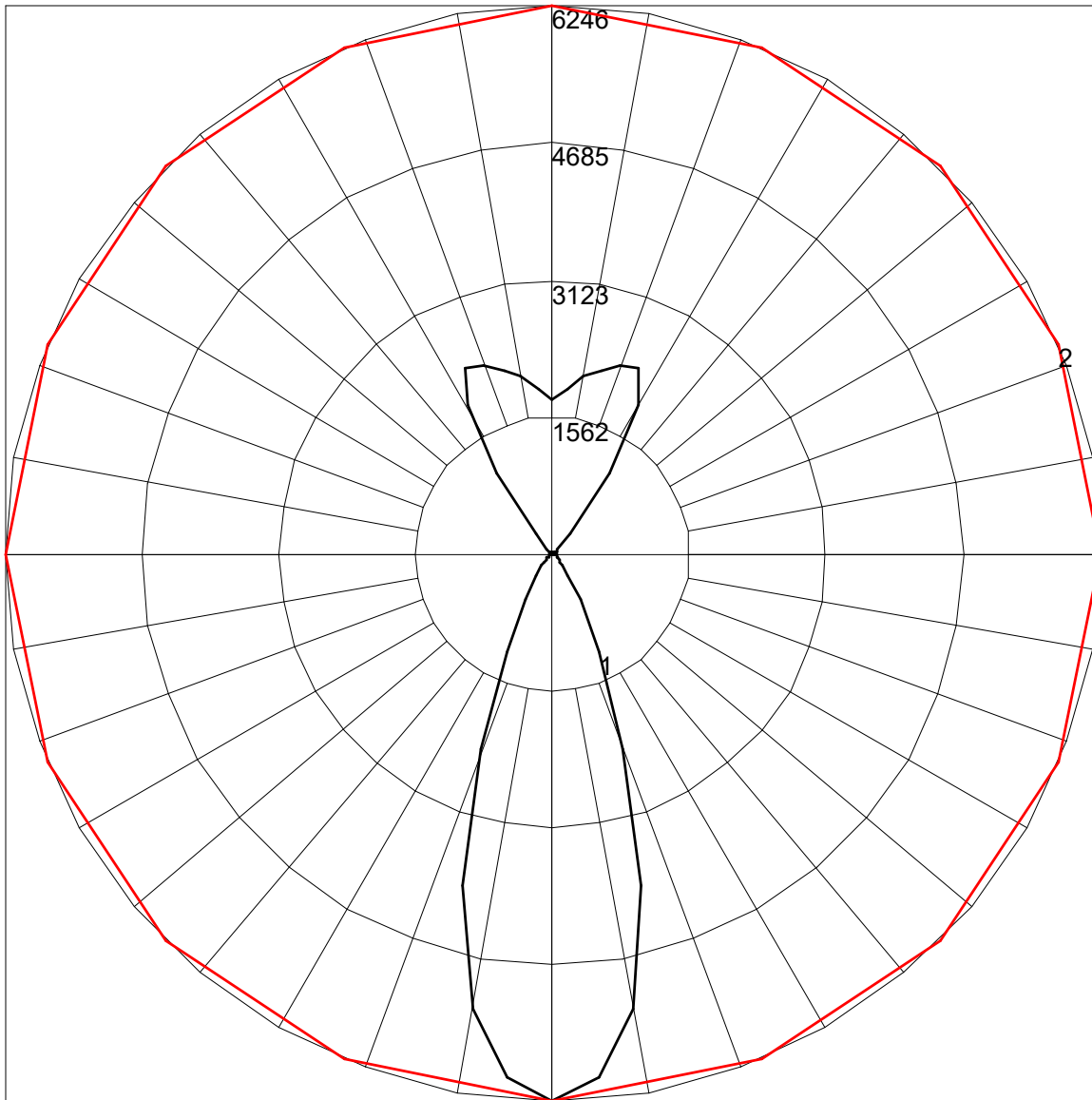
IES INDOOR REPORT
PHOTOMETRIC FILENAME : 192_168_37_234-14_54_42-MERGED.IES

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 = 6246.056 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.)