



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 192_168_37_234-14_57_58-MERGED.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from UL #13537338.03 & #12326812.10

[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-LN-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_SOURCE TYPE] LED

[_SEARCH_APPLICATION] INDOOR, DIRECT, INDIRECT

[_SEARCH_MOUNTING] WALL

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5420
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	954	954	954
55	518	518	518
65	295	295	295
75	144	144	144
85	32	32	32

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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	9952.659	9952.659	9952.659	9952.659	9952.659	9952.659	9952.659	9952.659	9952.659
5	9007.685	9007.685	9007.685	9007.685	9007.685	9007.685	9007.685	9007.685	9007.685
10	6624.961	6624.961	6624.961	6624.961	6624.961	6624.961	6624.961	6624.961	6624.961
15	3868.304	3868.304	3868.304	3868.304	3868.304	3868.304	3868.304	3868.304	3868.304
20	1947.921	1947.921	1947.921	1947.921	1947.921	1947.921	1947.921	1947.921	1947.921
25	919.465	919.465	919.465	919.465	919.465	919.465	919.465	919.465	919.465
30	440.891	440.891	440.891	440.891	440.891	440.891	440.891	440.891	440.891
35	238.562	238.562	238.562	238.562	238.562	238.562	238.562	238.562	238.562
40	150.732	150.732	150.732	150.732	150.732	150.732	150.732	150.732	150.732
45	108.411	108.411	108.411	108.411	108.411	108.411	108.411	108.411	108.411
50	82.613	82.613	82.613	82.613	82.613	82.613	82.613	82.613	82.613
55	64.351	64.351	64.351	64.351	64.351	64.351	64.351	64.351	64.351
60	50.292	50.292	50.292	50.292	50.292	50.292	50.292	50.292	50.292
65	38.553	38.553	38.553	38.553	38.553	38.553	38.553	38.553	38.553
70	28.117	28.117	28.117	28.117	28.117	28.117	28.117	28.117	28.117
75	19.276	19.276	19.276	19.276	19.276	19.276	19.276	19.276	19.276
80	11.305	11.305	11.305	11.305	11.305	11.305	11.305	11.305	11.305
85	4.203	4.203	4.203	4.203	4.203	4.203	4.203	4.203	4.203
90	5.560	5.560	5.560	5.560	5.560	5.560	5.560	5.560	5.560
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	1887.69	N.A.	34.80
0-30	2360.58	N.A.	43.50
0-40	2525.58	N.A.	46.60
0-60	2670.62	N.A.	49.30
0-80	2729.67	N.A.	50.40
0-90	2736.55	N.A.	50.50
10-90	1950.66	N.A.	36.00
20-40	637.90	N.A.	11.80
20-50	724.48	N.A.	13.40
40-70	183.52	N.A.	3.40
60-80	59.05	N.A.	1.10
70-80	20.57	N.A.	0.40
80-90	6.89	N.A.	0.10
90-110	16.37	N.A.	0.30
90-120	31.57	N.A.	0.60
90-130	60.95	N.A.	1.10
90-150	850.70	N.A.	15.70
90-180	2683.86	N.A.	49.50
110-180	2667.49	N.A.	49.20
0-180	5420.42	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	785.89
10-20	1101.79
20-30	472.89
30-40	165.00
40-50	86.58
50-60	58.45
60-70	38.48
70-80	20.57
80-90	6.89
90-100	6.75
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	84	84	84	70	70	70	57	57	57	50
1	101	97	94	92	93	90	88	86	77	76	74	65	64	63	54	54	53	48
2	94	89	84	81	87	83	79	76	72	69	67	61	60	58	52	51	50	46
3	89	82	76	72	82	77	72	68	67	64	61	58	56	54	50	48	47	43
4	84	76	70	65	78	71	66	62	63	59	56	55	52	50	48	46	45	42
5	79	70	64	60	74	66	61	57	59	55	52	52	49	47	46	44	43	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	45	43	42	41	39	37
8	68	58	52	48	64	55	50	47	50	46	44	46	43	41	41	39	38	36
9	64	55	49	45	61	53	48	44	48	44	41	44	41	39	40	38	36	34
10	62	52	47	43	58	50	45	42	46	42	40	42	39	37	38	36	35	33

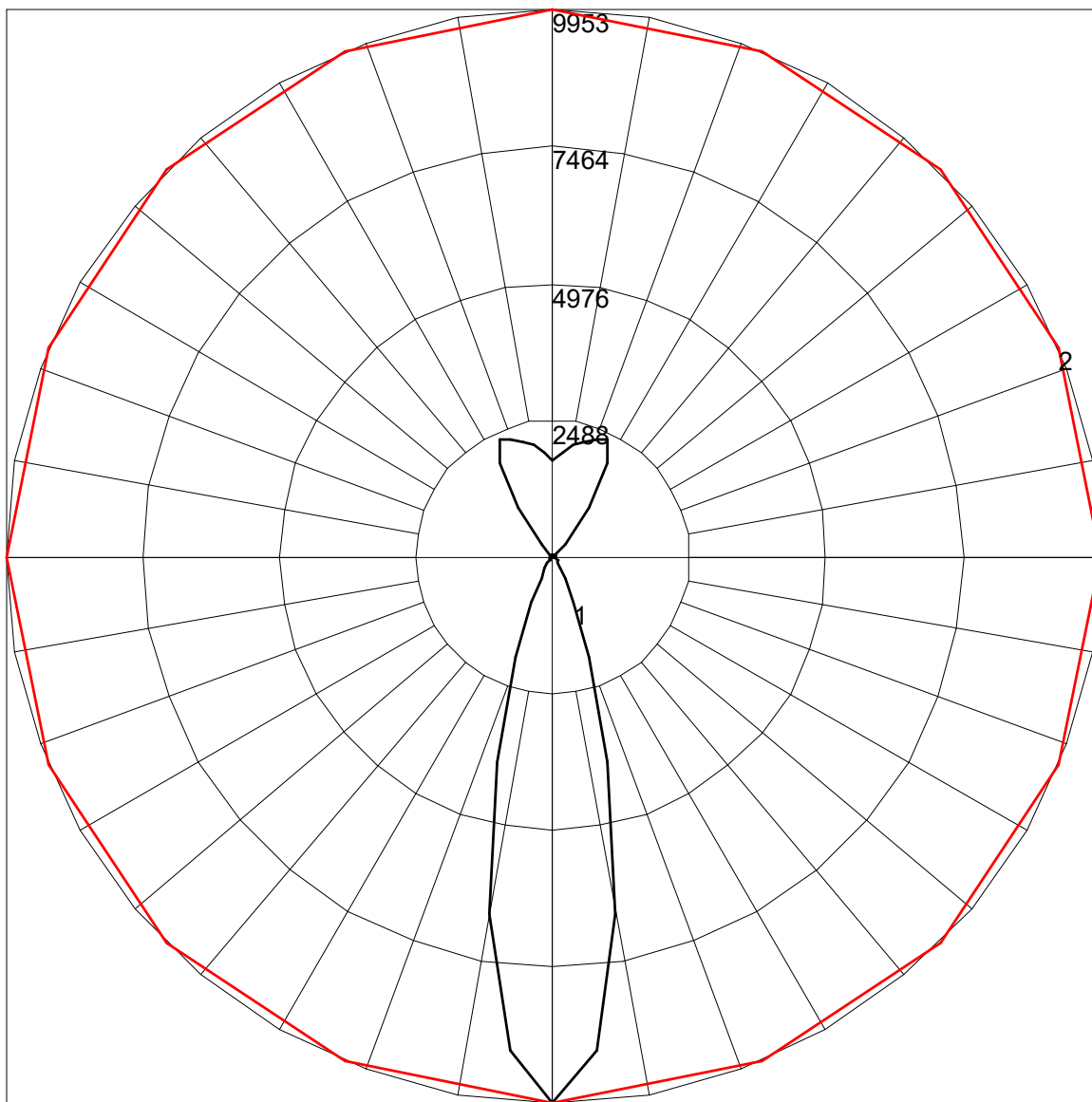
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UGR TABLE - CORRECTED

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	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
	3H	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
	4H	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
	6H	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
	8H	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
	12H	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
4H	2H	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
	3H	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
	4H	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
	6H	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
	8H	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
	12H	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
8H	4H	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
	6H	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
	8H	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
	12H	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
12H	4H	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
	6H	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
	8H	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9

Maximum UGR = 5.9

POLAR GRAPH



Maximum Candela = 9952.659 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.)