



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 192_168_37_234-15_35_2-MERGED.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from UL #13537338.03 & BALLABS #20687.0

[TESTLAB] UL Verification Services Inc.

[ISSUEDATE] 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-OW-CSD-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	5214
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	104
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	527	527	527
55	136	136	136
65	20	20	20
75	0	0	0
85	0	0	0

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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	2176.153	2176.153	2176.153	2176.153	2176.153	2176.153	2176.153	2176.153	2176.153
5	2055.111	2055.111	2055.111	2055.111	2055.111	2055.111	2055.111	2055.111	2055.111
10	2262.054	2262.054	2262.054	2262.054	2262.054	2262.054	2262.054	2262.054	2262.054
15	2258.149	2258.149	2258.149	2258.149	2258.149	2258.149	2258.149	2258.149	2258.149
20	2358.367	2358.367	2358.367	2358.367	2358.367	2358.367	2358.367	2358.367	2358.367
25	2579.627	2579.627	2579.627	2579.627	2579.627	2579.627	2579.627	2579.627	2579.627
30	2534.073	2534.073	2534.073	2534.073	2534.073	2534.073	2534.073	2534.073	2534.073
35	786.122	786.122	786.122	786.122	786.122	786.122	786.122	786.122	786.122
40	108.027	108.027	108.027	108.027	108.027	108.027	108.027	108.027	108.027
45	59.870	59.870	59.870	59.870	59.870	59.870	59.870	59.870	59.870
50	35.141	35.141	35.141	35.141	35.141	35.141	35.141	35.141	35.141
55	16.920	16.920	16.920	16.920	16.920	16.920	16.920	16.920	16.920
60	9.111	9.111	9.111	9.111	9.111	9.111	9.111	9.111	9.111
65	2.603	2.603	2.603	2.603	2.603	2.603	2.603	2.603	2.603
70	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
75	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
80	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
85	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
90	4.879	4.879	4.879	4.879	4.879	4.879	4.879	4.879	4.879
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	853.62	N.A.	16.40
0-30	2018.67	N.A.	38.70
0-40	2656.77	N.A.	51.00
0-60	2724.4	N.A.	52.30
0-80	2727.9	N.A.	52.30
0-90	2729.24	N.A.	52.30
10-90	2524.22	N.A.	48.40
20-40	1803.15	N.A.	34.60
20-50	1853.44	N.A.	35.50
40-70	71.13	N.A.	1.40
60-80	3.51	N.A.	0.10
70-80	0.00	N.A.	0.00
80-90	1.34	N.A.	0.00
90-110	15.09	N.A.	0.30
90-120	29.15	N.A.	0.60
90-130	56.36	N.A.	1.10
90-150	787.58	N.A.	15.10
90-180	2484.88	N.A.	47.70
110-180	2469.79	N.A.	47.40
0-180	5214.12	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	205.02
10-20	648.60
20-30	1165.05
30-40	638.10
40-50	50.29
50-60	17.34
60-70	3.51
70-80	0.00
80-90	1.34
90-100	6.18
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	108	108	108	108	100	100	100	100	85	85	85	71	71	71	58	58	58	52
1	101	97	94	92	93	91	88	86	78	76	74	66	65	64	55	55	54	49
2	94	88	84	80	87	82	78	75	72	69	66	61	59	58	52	51	50	46
3	88	80	75	70	82	75	70	66	66	62	59	57	55	53	49	47	46	42
4	82	73	67	62	76	69	64	59	61	57	54	53	50	48	46	44	43	39
5	77	67	61	56	72	64	58	53	56	52	49	50	46	44	43	41	39	37
6	72	62	55	51	67	59	53	48	52	48	44	46	43	40	41	38	37	34
7	67	57	51	46	63	54	48	44	49	44	41	43	40	37	38	36	34	32
8	63	53	46	42	59	50	45	40	45	41	38	41	37	35	36	34	32	30
9	60	49	43	39	56	47	41	37	42	38	35	38	35	32	34	31	30	28
10	56	46	40	35	53	44	38	34	40	35	32	36	32	30	32	30	28	26

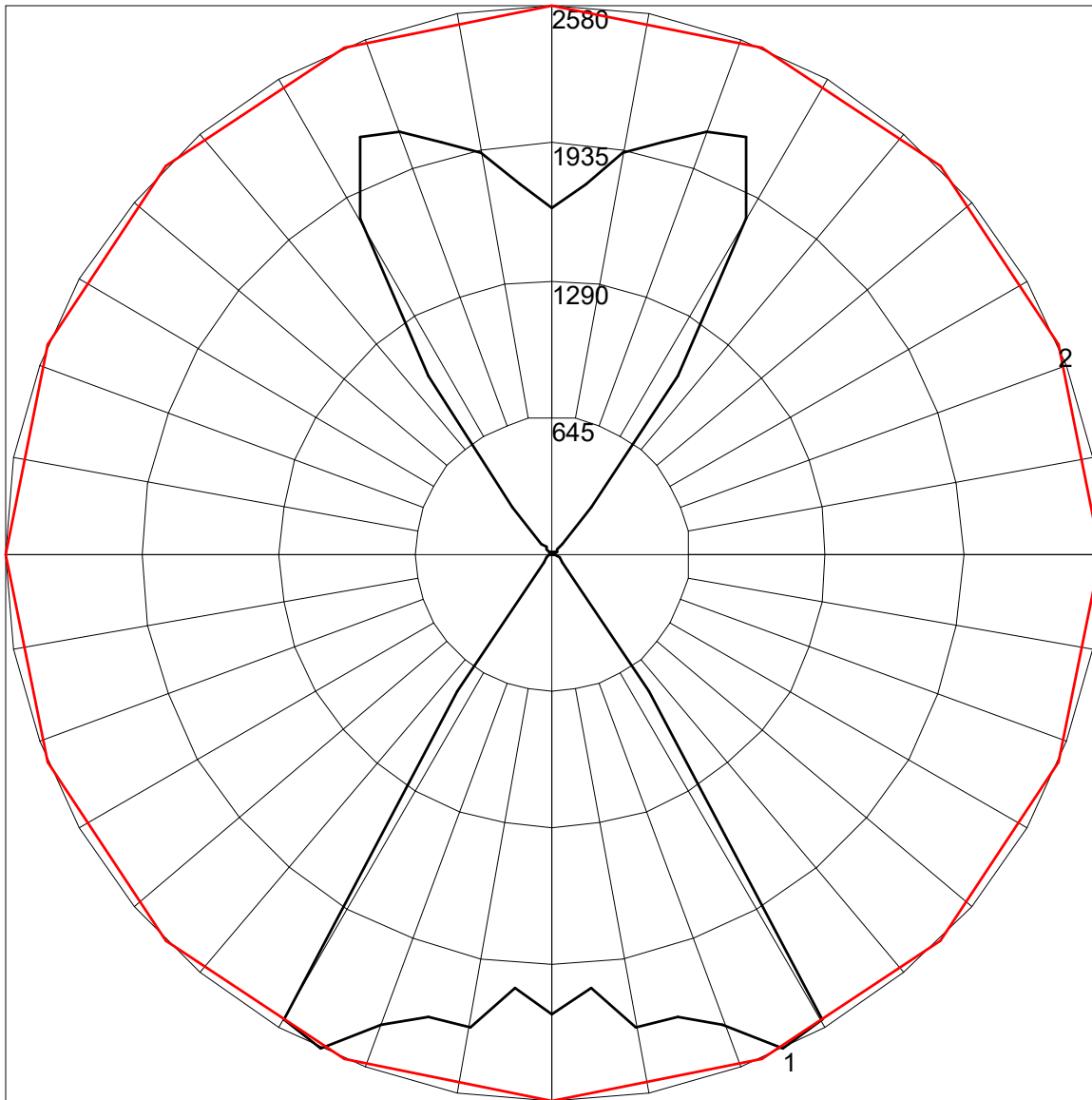
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UGR TABLE - CORRECTED

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	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
	3H	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
	4H	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
	6H	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
	8H	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
	12H	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
4H	2H	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
	3H	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
	4H	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
	6H	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
	8H	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
	12H	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
8H	4H	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
	6H	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
	8H	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
	12H	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
12H	4H	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
	6H	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
	8H	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7

Maximum UGR = 5.7

POLAR GRAPH



Maximum Candela = 2579.627 Located At Horizontal Angle = 0, Vertical Angle = 25
1 - Vertical Plane Through Horizontal Angles (90 - 270)
2 - Horizontal Cone Through Vertical Angle (25) (Through Max. Cd.)