



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 8CRDI-TL-P29-8TWU-P29-8TWD-XXX-POE PR-LW-CSU-LN-WHD-WM 4000K_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from UL #13537338.04 & #12326812.1

[TESTLAB] UL Verification Services Inc.

[ISSUE DATE] 25-FEB-2021

[MANUFAC] WILLIAMS INDOOR

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

[LUMCAT] 8CRDI-TL-P29-8TWU-P29-8TWD-xxx-PoE PR-LW-CSU-LN-WHD-WM 4000k

[LUMINAIRE] White formed aluminum housing, wide distribution reflector

[MORE] trims, flush upright frosted 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	4734
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	95
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	884	884	884
55	480	480	480
65	273	273	273
75	134	134	134
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>
0.0	9215.844	9215.844	9215.844	9215.844	9215.844
2.5	8987.695	8987.695	8987.695	8987.695	8987.695
5.0	8340.828	8340.828	8340.828	8340.828	8340.828
7.5	7357.107	7357.107	7357.107	7357.107	7357.107
10.0	6134.501	6134.501	6134.501	6134.501	6134.501
12.5	4821.979	4821.979	4821.979	4821.979	4821.979
15.0	3581.926	3581.926	3581.926	3581.926	3581.926
17.5	2564.654	2564.654	2564.654	2564.654	2564.654
20.0	1803.713	1803.713	1803.713	1803.713	1803.713
22.5	1246.360	1246.360	1246.360	1246.360	1246.360
25.0	851.395	851.395	851.395	851.395	851.395
27.5	583.254	583.254	583.254	583.254	583.254
30.0	408.251	408.251	408.251	408.251	408.251
32.5	294.982	294.982	294.982	294.982	294.982
35.0	220.901	220.901	220.901	220.901	220.901
37.5	172.185	172.185	172.185	172.185	172.185
40.0	139.573	139.573	139.573	139.573	139.573
42.5	117.027	117.027	117.027	117.027	117.027
45.0	100.385	100.385	100.385	100.385	100.385
47.5	87.367	87.367	87.367	87.367	87.367
50.0	76.497	76.497	76.497	76.497	76.497
52.5	67.371	67.371	67.371	67.371	67.371
55.0	59.587	59.587	59.587	59.587	59.587
57.5	52.742	52.742	52.742	52.742	52.742
60.0	46.569	46.569	46.569	46.569	46.569
62.5	40.932	40.932	40.932	40.932	40.932
65.0	35.699	35.699	35.699	35.699	35.699
67.5	30.733	30.733	30.733	30.733	30.733
70.0	26.036	26.036	26.036	26.036	26.036
72.5	21.741	21.741	21.741	21.741	21.741
75.0	17.849	17.849	17.849	17.849	17.849
77.5	13.957	13.957	13.957	13.957	13.957
80.0	10.468	10.468	10.468	10.468	10.468
82.5	7.113	7.113	7.113	7.113	7.113
85.0	3.892	3.892	3.892	3.892	3.892
87.5	1.476	1.476	1.476	1.476	1.476
90.0	5.617	5.617	5.617	5.617	5.617
92.5	8.236	8.236	8.236	8.236	8.236
95.0	14.392	14.392	14.392	14.392	14.392
97.5	24.410	24.410	24.410	24.410	24.410
100.0	36.338	36.338	36.338	36.338	36.338
102.5	48.862	48.862	48.862	48.862	48.862
105.0	62.363	62.363	62.363	62.363	62.363
107.5	77.602	77.602	77.602	77.602	77.602
110.0	95.347	95.347	95.347	95.347	95.347
112.5	115.299	115.299	115.299	115.299	115.299
115.0	137.884	137.884	137.884	137.884	137.884
117.5	163.186	163.186	163.186	163.186	163.186
120.0	191.500	191.500	191.500	191.500	191.500
122.5	223.000	223.000	223.000	223.000	223.000
125.0	257.811	257.811	257.811	257.811	257.811
127.5	294.956	294.956	294.956	294.956	294.956
130.0	333.588	333.588	333.588	333.588	333.588
132.5	372.431	372.431	372.431	372.431	372.431

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135.0	411.233	411.233	411.233	411.233	411.233
137.5	451.689	451.689	451.689	451.689	451.689
140.0	498.387	498.387	498.387	498.387	498.387
142.5	558.244	558.244	558.244	558.244	558.244
145.0	638.903	638.903	638.903	638.903	638.903
147.5	743.335	743.335	743.335	743.335	743.335
150.0	872.813	872.813	872.813	872.813	872.813
152.5	1007.811	1007.811	1007.811	1007.811	1007.811
155.0	1144.931	1144.931	1144.931	1144.931	1144.931
157.5	1267.193	1267.193	1267.193	1267.193	1267.193
160.0	1362.710	1362.710	1362.710	1362.710	1362.710
162.5	1426.812	1426.812	1426.812	1426.812	1426.812
165.0	1463.321	1463.321	1463.321	1463.321	1463.321
167.5	1482.849	1482.849	1482.849	1482.849	1482.849
170.0	1493.886	1493.886	1493.886	1493.886	1493.886
172.5	1501.952	1501.952	1501.952	1501.952	1501.952
175.0	1509.169	1509.169	1509.169	1509.169	1509.169
177.5	1512.565	1512.565	1512.565	1512.565	1512.565
180.0	1511.812	1511.812	1511.812	1511.812	1511.812

IES INDOOR REPORT**PHOTOMETRIC FILENAME : 8CRDI-TL-P29-8TWU-P29-8TWD-XXX-POE PR-LW-CSU-LN-WHD-WM 4000K_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1720.32	N.A.	36.30
0-30	2139.99	N.A.	45.20
0-40	2287.88	N.A.	48.30
0-60	2421.01	N.A.	51.10
0-80	2475.46	N.A.	52.30
0-90	2481.05	N.A.	52.40
10-90	1755.71	N.A.	37.10
20-40	567.56	N.A.	12.00
20-50	646.83	N.A.	13.70
40-70	168.65	N.A.	3.60
60-80	54.45	N.A.	1.20
70-80	18.93	N.A.	0.40
80-90	5.59	N.A.	0.10
90-110	85.64	N.A.	1.80
90-120	223.94	N.A.	4.70
90-130	455.60	N.A.	9.60
90-150	1181.46	N.A.	25.00
90-180	2252.63	N.A.	47.60
110-180	2166.99	N.A.	45.80
0-180	4733.67	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	725.33
10-20	994.99
20-30	419.67
30-40	147.90
40-50	79.27
50-60	53.85
60-70	35.52
70-80	18.93
80-90	5.59
90-100	18.51
100-110	67.13
110-120	138.31
120-130	231.66
130-140	318.00
140-150	407.86
150-160	518.30
160-170	409.34
170-180	143.53

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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	98	95	92	94	91	89	87	78	77	75	67	66	65	56	55	55	50
2	95	90	85	81	88	84	80	77	73	70	68	63	61	60	53	52	51	47
3	89	82	77	73	83	77	73	69	68	65	62	59	57	55	51	50	49	45
4	84	76	70	66	79	72	67	63	64	60	57	56	54	52	49	48	46	43
5	80	71	65	61	75	67	62	58	60	56	53	54	51	49	47	46	44	41
6	76	67	60	56	71	63	58	54	57	53	50	51	48	46	46	44	42	40
7	72	63	57	52	68	60	54	51	54	50	47	49	46	44	44	42	40	38
8	68	59	53	49	65	57	51	48	52	48	45	47	44	42	42	40	39	37
9	65	56	50	46	62	54	49	45	49	45	43	45	42	40	41	39	38	36
10	63	53	48	44	59	51	46	43	47	43	41	43	41	38	40	38	36	35

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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

X=2H	Y=2H	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
	3H	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
	4H	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
	6H	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
	8H	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
	12H	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4

UGR Viewed Endwise

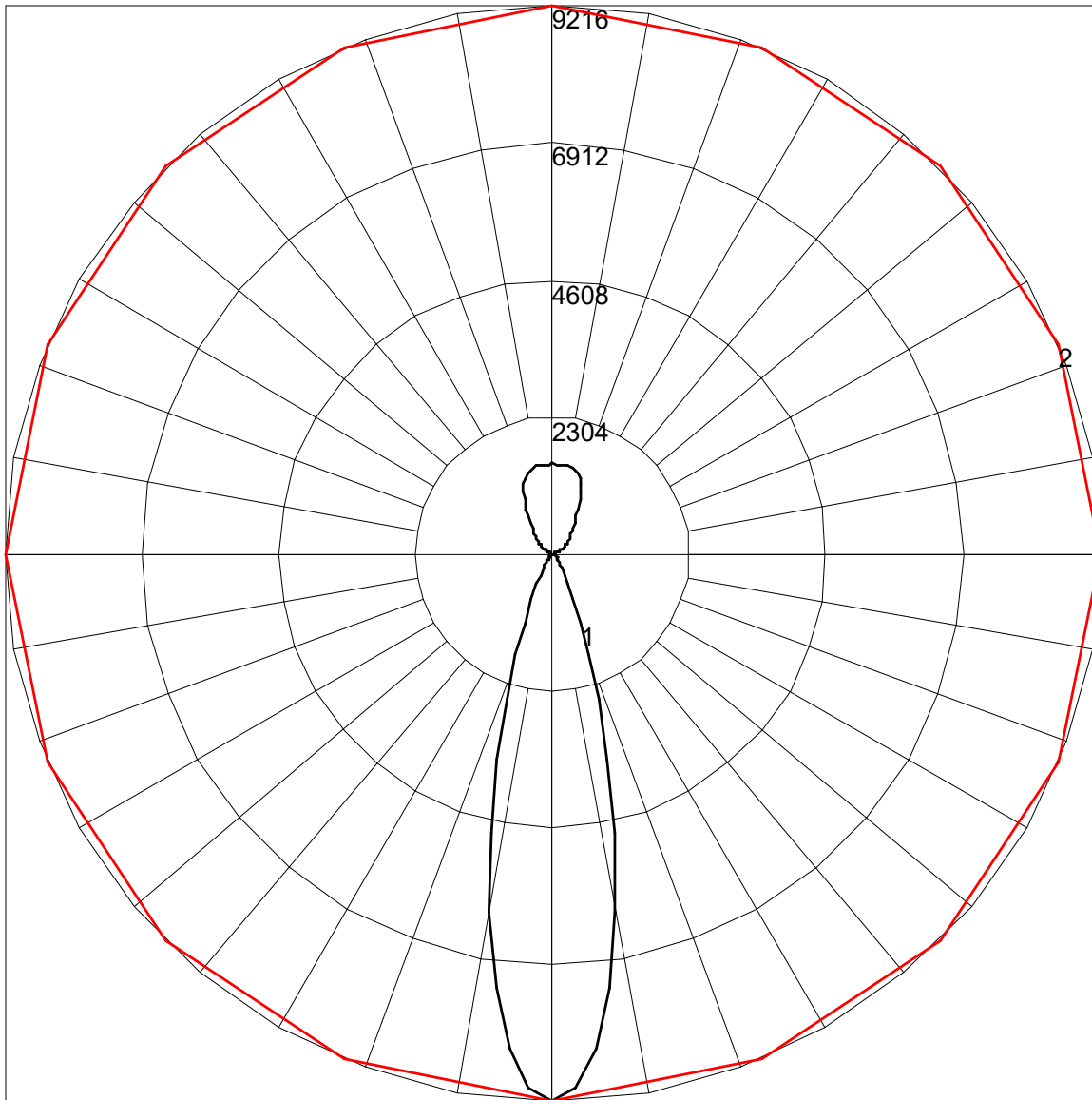
4H	2H	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
	3H	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
	4H	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
	6H	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
	8H	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
	12H	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
8H	4H	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
	6H	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
	8H	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
	12H	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
12H	4H	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
	6H	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
	8H	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4

Maximum UGR = 5.4

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POLAR GRAPH



Maximum Candela = 9215.844 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.)