



IES INDOOR REPORT

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

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from UL #13537338.04 & #12326812.12

[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-RW-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	4456
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	89
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	3099	3099	3099
55	1919	1919	1919
65	946	946	946
75	348	348	348
85	93	93	93

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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	1627.543	1627.543	1627.543	1627.543	1627.543
2.5	1615.363	1615.363	1615.363	1615.363	1615.363
5.0	1587.958	1587.958	1587.958	1587.958	1587.958
7.5	1557.508	1557.508	1557.508	1557.508	1557.508
10.0	1524.014	1524.014	1524.014	1524.014	1524.014
12.5	1487.474	1487.474	1487.474	1487.474	1487.474
15.0	1450.934	1450.934	1450.934	1450.934	1450.934
17.5	1417.896	1417.896	1417.896	1417.896	1417.896
20.0	1388.207	1388.207	1388.207	1388.207	1388.207
22.5	1345.425	1345.425	1345.425	1345.425	1345.425
25.0	1273.411	1273.411	1273.411	1273.411	1273.411
27.5	1160.138	1160.138	1160.138	1160.138	1160.138
30.0	996.927	996.927	996.927	996.927	996.927
32.5	790.477	790.477	790.477	790.477	790.477
35.0	600.166	600.166	600.166	600.166	600.166
37.5	480.498	480.498	480.498	480.498	480.498
40.0	418.533	418.533	418.533	418.533	418.533
42.5	380.623	380.623	380.623	380.623	380.623
45.0	352.000	352.000	352.000	352.000	352.000
47.5	325.661	325.661	325.661	325.661	325.661
50.0	298.560	298.560	298.560	298.560	298.560
52.5	268.872	268.872	268.872	268.872	268.872
55.0	238.118	238.118	238.118	238.118	238.118
57.5	206.754	206.754	206.754	206.754	206.754
60.0	177.218	177.218	177.218	177.218	177.218
62.5	149.509	149.509	149.509	149.509	149.509
65.0	123.778	123.778	123.778	123.778	123.778
67.5	100.180	100.180	100.180	100.180	100.180
70.0	79.017	79.017	79.017	79.017	79.017
72.5	60.595	60.595	60.595	60.595	60.595
75.0	46.436	46.436	46.436	46.436	46.436
77.5	36.235	36.235	36.235	36.235	36.235
80.0	27.557	27.557	27.557	27.557	27.557
82.5	19.488	19.488	19.488	19.488	19.488
85.0	12.332	12.332	12.332	12.332	12.332
87.5	5.633	5.633	5.633	5.633	5.633
90.0	6.871	6.871	6.871	6.871	6.871
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

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Zone	Lumens	%Lamp	%Fixt
0-20	559.53	N.A.	12.60
0-30	1129.64	N.A.	25.40
0-40	1527.35	N.A.	34.30
0-60	2012.83	N.A.	45.20
0-80	2188.47	N.A.	49.10
0-90	2203.35	N.A.	49.40
10-90	2053.74	N.A.	46.10
20-40	967.82	N.A.	21.70
20-50	1240.91	N.A.	27.80
40-70	609.33	N.A.	13.70
60-80	175.64	N.A.	3.90
70-80	51.79	N.A.	1.20
80-90	14.88	N.A.	0.30
90-110	85.81	N.A.	1.90
90-120	224.12	N.A.	5.00
90-130	455.77	N.A.	10.20
90-150	1181.63	N.A.	26.50
90-180	2252.8	N.A.	50.60
110-180	2166.99	N.A.	48.60
0-180	4456.15	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	149.60
10-20	409.93
20-30	570.11
30-40	397.71
40-50	273.09
50-60	212.39
60-70	123.85
70-80	51.79
80-90	14.88
90-100	18.68
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	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	49
1	99	95	92	89	91	88	85	82	75	73	71	62	61	60	51	50	49	44
2	91	85	79	75	84	79	74	70	67	64	61	56	54	52	47	45	44	39
3	84	76	69	64	78	70	65	60	60	56	53	51	48	46	43	41	39	35
4	78	68	61	56	72	63	57	52	55	50	46	47	43	41	39	37	35	31
5	72	62	54	49	67	58	51	46	50	45	41	43	39	36	36	34	32	28
6	67	56	49	43	62	52	46	41	46	41	37	39	36	33	34	31	29	26
7	62	51	44	39	58	48	42	37	42	37	33	36	33	30	31	28	26	24
8	58	47	40	35	54	44	38	33	39	34	30	34	30	27	29	26	24	22
9	55	43	36	32	51	41	35	30	36	31	28	31	28	25	27	24	22	20
10	51	40	33	29	48	38	32	28	34	29	25	29	26	23	26	23	21	19

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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	7.3	8.1	8.3	9.0	10.3	7.3	8.1	8.3	9.0	10.3
	3H	7.9	8.6	8.9	9.6	10.9	7.9	8.6	8.9	9.6	10.9
	4H	8.0	8.7	9.0	9.7	11.0	8.0	8.7	9.0	9.7	11.0
	6H	8.0	8.6	9.1	9.6	11.0	8.0	8.6	9.1	9.6	11.0
	8H	8.0	8.6	9.0	9.6	10.9	8.0	8.6	9.0	9.6	10.9
	12H	8.0	8.5	9.0	9.5	10.9	8.0	8.5	9.0	9.5	10.9

UGR Viewed Endwise

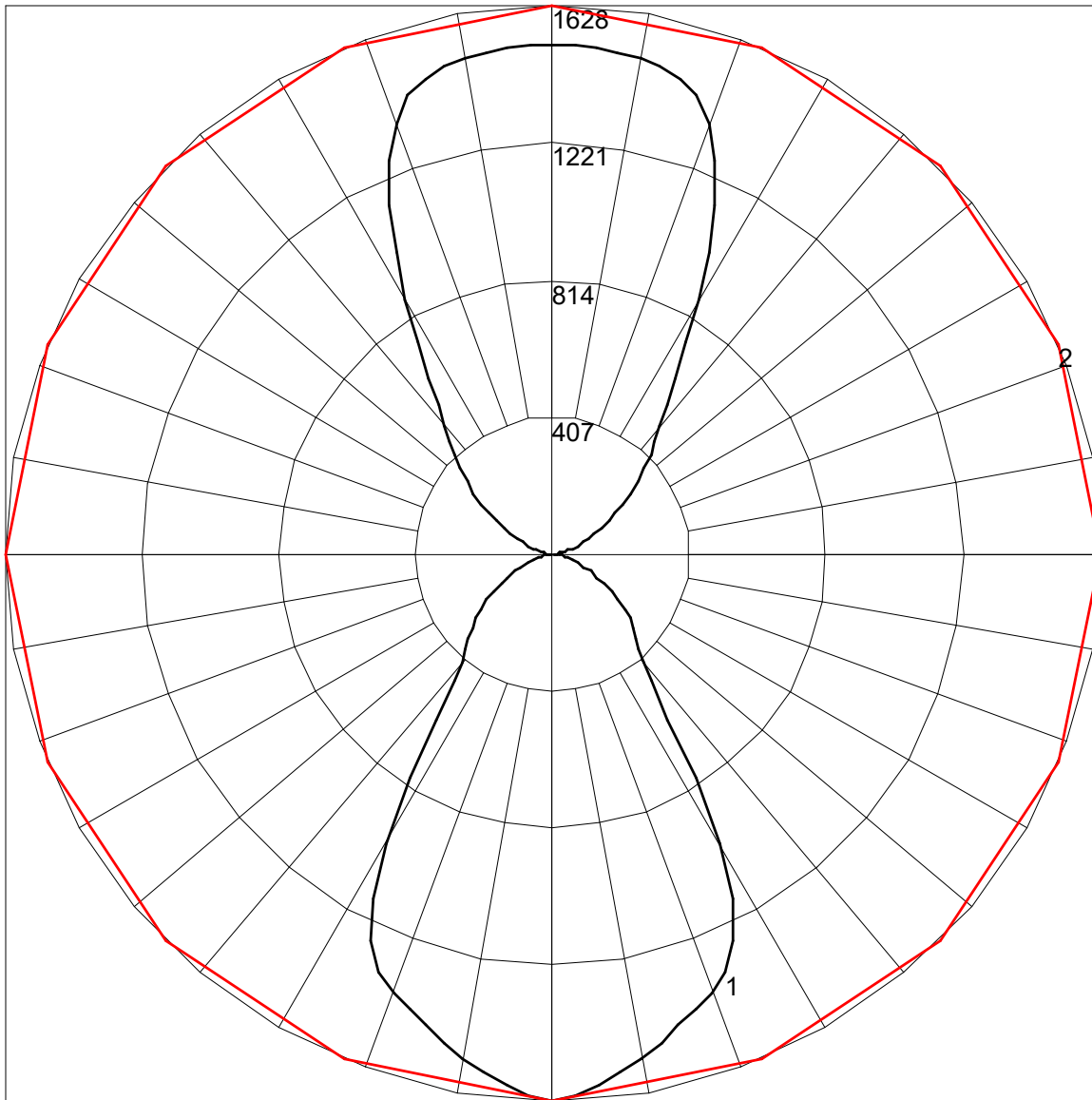
4H	2H	7.4	8.1	8.4	9.1	10.4	7.4	8.1	8.4	9.1	10.4
	3H	8.1	8.7	9.2	9.7	11.0	8.1	8.7	9.2	9.7	11.0
	4H	8.3	8.8	9.3	9.8	11.1	8.3	8.8	9.3	9.8	11.1
	6H	8.4	8.8	9.4	9.8	11.2	8.4	8.8	9.4	9.8	11.2
	8H	8.3	8.7	9.4	9.8	11.1	8.3	8.7	9.4	9.8	11.1
	12H	8.3	8.6	9.4	9.7	11.1	8.3	8.6	9.4	9.7	11.1
8H	4H	8.2	8.6	9.3	9.7	11.0	8.2	8.6	9.3	9.7	11.0
	6H	8.3	8.6	9.4	9.7	11.1	8.3	8.6	9.4	9.7	11.1
	8H	8.3	8.6	9.4	9.7	11.1	8.3	8.6	9.4	9.7	11.1
	12H	8.3	8.6	9.4	9.6	11.1	8.3	8.6	9.4	9.6	11.1
12H	4H	8.2	8.5	9.2	9.6	10.9	8.2	8.5	9.2	9.6	10.9
	6H	8.3	8.6	9.4	9.6	11.0	8.3	8.6	9.4	9.6	11.0
	8H	8.3	8.5	9.4	9.6	11.0	8.3	8.5	9.4	9.6	11.0

Maximum UGR = 11.2

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POLAR GRAPH



Maximum Candela = 1627.543 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.)