

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P189057

Luminaire Tested: **RZL-WF-80L830-1D-UNV-STD-W-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P189057
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34815)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: RZL-WF-80L830-1D-UNV-STD-W-4
Description: RZL LINEAR LED FIXTURE
WITH PERFORATED SIDES, 11-CELL LOUVER AND CURVED SMOOTH FROSTED LENS
Light Source: (224) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7907.4 lumens
Efficiency: N/A
Efficacy: 105.7 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.27 / 1.33
Luminous Opening: Rectangular (W 0.53' x L: 3.83' x H: 0')
CIE Type: Direct

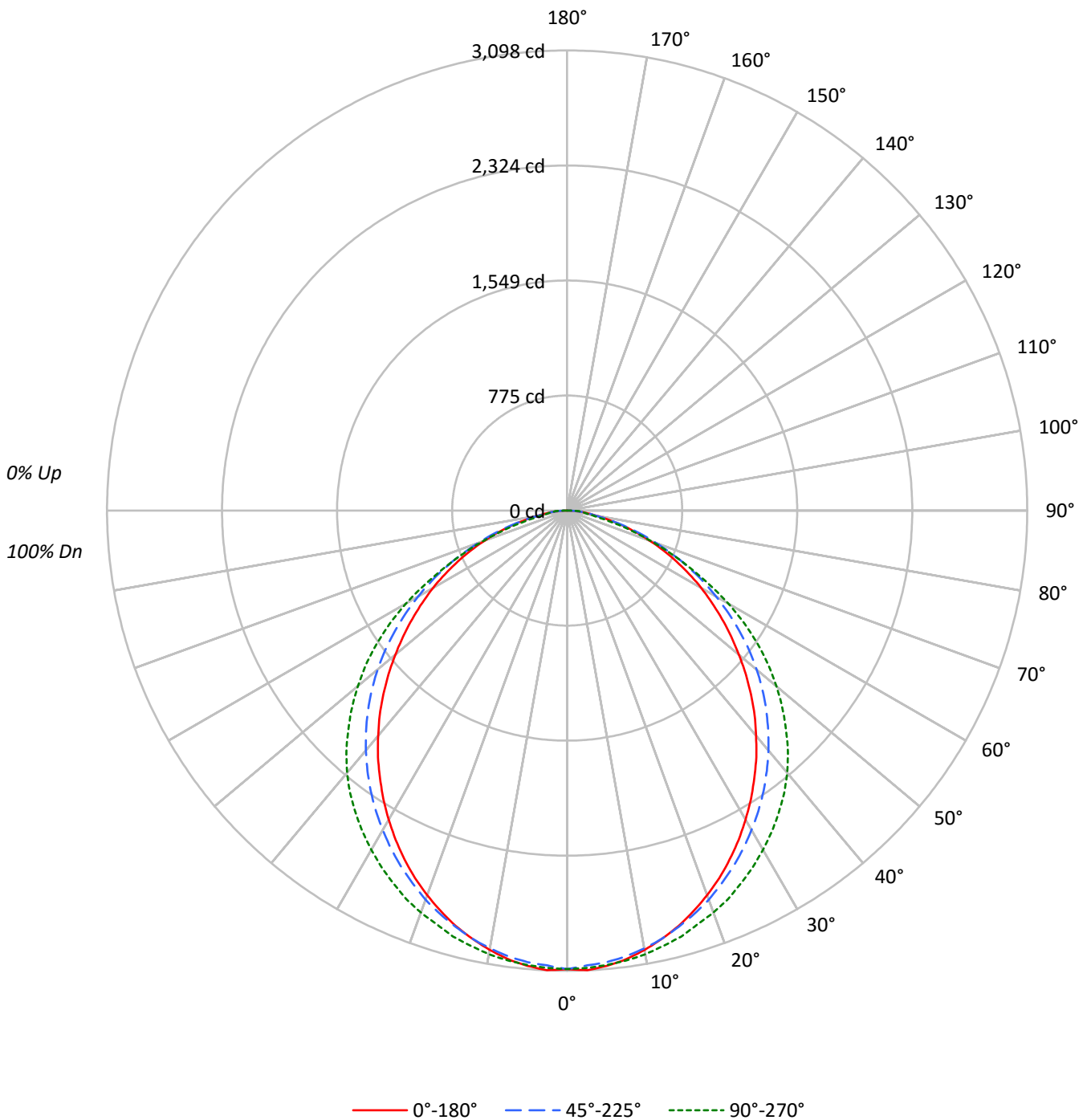
Input Watts (W): 74.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				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
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77	83	79	76	80	77	74	72
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61
4	84	72	64	57	82	71	63	57	68	61	56	66	60	55	64	59	55	52
5	77	65	56	49	75	64	55	49	61	54	49	59	53	48	58	52	48	46
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	47	42	40
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	32
9	58	44	36	31	56	44	36	31	43	36	31	42	35	31	41	35	30	29
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16252	16252	16252
5°	16258	16130	16229
10°	16057	15999	16215
15°	15782	15812	16179
20°	15438	15619	16133
25°	15051	15364	16085
30°	14604	15095	16030
35°	14123	14816	15959
40°	13601	14490	15843
45°	13028	14112	15517
50°	12367	13647	15060
55°	11681	12992	14378
60°	10987	12207	13201
65°	10110	11218	11387
70°	9088	9795	9338
75°	7787	8062	6745
80°	6049	5967	4578
85°	5213	5376	6029



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	290.9	3.7
10°-20°	823.4	10.4
20°-30°	1227.9	15.5
30°-40°	1453.0	18.4
40°-50°	1468.3	18.6
50°-60°	1264.4	16.0
60°-70°	872.2	11.0
70°-80°	406.1	5.1
80°-90°	101.2	1.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2342.3	29.6
0°-40°	3795.2	48.0
0°-60°	6528.0	82.6
0°-90°	7907.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7907.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3087	3087	3087	3087	3087	
5°	3076	3065	3052	3076	3071	291
15°	2896	2893	2901	2955	2968	815
25°	2591	2604	2645	2736	2769	1192
35°	2197	2227	2305	2421	2483	1374
45°	1750	1796	1895	2017	2084	1349
55°	1272	1324	1415	1504	1566	1139
65°	812	849	900	909	914	805
75°	383	402	396	353	332	408
85°	86	89	89	97	100	99
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3086.9	3086.9	3086.9	3086.9	3086.9
2.5°	3097.7	3084.3	3065.4	3086.9	3081.6
5°	3076.2	3065.4	3051.9	3076.2	3070.8
7.5°	3046.5	3035.7	3027.6	3057.3	3054.6
10°	3003.4	2998.0	2992.6	3030.3	3033.0
12.5°	2952.1	2949.4	2952.1	2995.3	3000.7
15°	2895.5	2892.8	2900.9	2954.8	2968.3
17.5°	2828.1	2830.8	2847.0	2906.3	2919.8
20°	2755.3	2760.7	2787.7	2857.8	2879.4
22.5°	2677.2	2685.2	2717.6	2798.5	2830.8
25°	2590.9	2604.4	2644.8	2736.5	2768.8
27.5°	2499.2	2515.4	2566.6	2663.7	2706.8
30°	2402.2	2423.7	2483.0	2588.2	2636.7
32.5°	2302.4	2326.7	2396.8	2507.3	2563.9
35°	2197.3	2226.9	2305.1	2421.0	2483.0
37.5°	2092.1	2124.5	2208.0	2332.1	2399.5
40°	1978.9	2013.9	2108.3	2235.0	2305.1
42.5°	1868.3	1906.1	2003.1	2132.6	2200.0
45°	1749.7	1795.6	1895.3	2016.6	2084.0
47.5°	1631.1	1676.9	1782.1	1892.6	1965.4
50°	1509.8	1561.0	1666.1	1768.6	1838.7
52.5°	1391.1	1447.8	1544.8	1639.2	1709.3
55°	1272.5	1323.7	1415.4	1504.4	1566.4
57.5°	1156.6	1205.1	1288.7	1364.2	1415.4
60°	1043.4	1086.5	1159.3	1215.9	1253.7
62.5°	927.4	970.6	1029.9	1062.2	1081.1
65°	811.5	849.2	900.5	908.6	914.0
67.5°	701.0	736.0	768.4	754.9	757.6
70°	590.4	620.1	636.3	609.3	606.6
72.5°	485.3	506.9	514.9	477.2	463.7
75°	382.8	401.7	396.3	353.2	331.6
77.5°	285.8	302.0	288.5	242.6	215.7
80°	199.5	207.6	196.8	159.1	151.0
82.5°	140.2	140.2	132.1	129.4	126.7
85°	86.3	89.0	89.0	97.1	99.8
87.5°	37.7	43.1	48.5	67.4	72.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)