

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: P189012

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P189012
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34812)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: RZL-NL-80L830-1D-UNV-STD-W-4
Description: RZL LINEAR LED FIXTURE
WITH SOLID ALUMINUM SIDES, FROSTED LINEAR PRISMATIC LENS AND INLAY
Light Source: (224) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8079.3 lumens
Efficiency: N/A
Efficacy: 108.0 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.25 / 1.34
Luminous Opening: Rectangular (W 0.53' x L: 3.83' x H: 0')
CIE Type: Direct

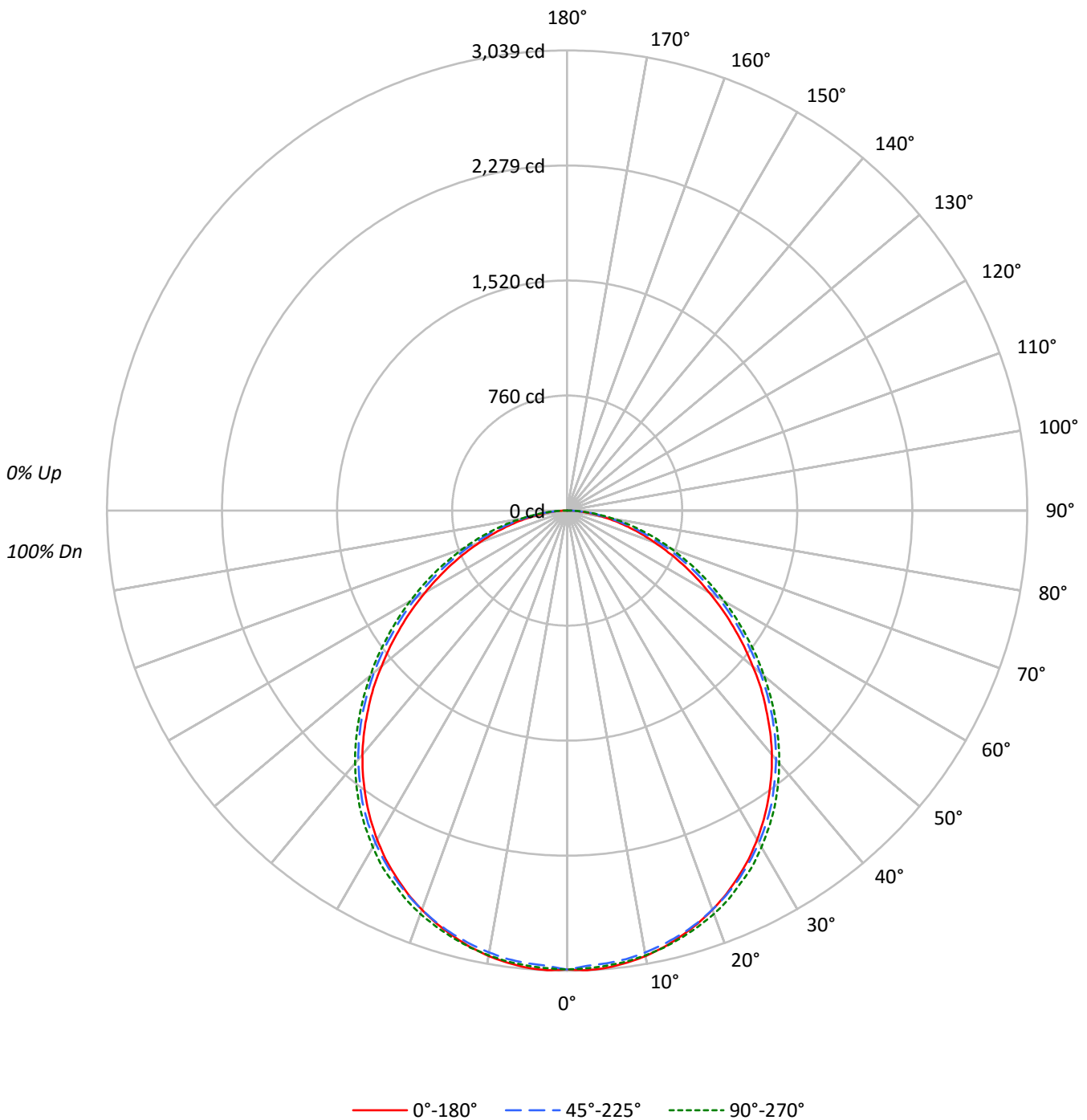
Input Watts (W): 74.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	100	97	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71
3	91	81	73	66	88	79	72	66	76	70	64	73	68	63	71	66	62	60
4	83	72	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	52
5	77	64	55	49	75	63	55	48	61	53	48	59	52	47	57	51	47	45
6	71	58	49	43	69	57	48	42	55	48	42	53	47	42	52	46	41	39
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35
8	61	48	40	34	60	47	39	34	46	39	33	45	38	33	44	37	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	52	40	33	28	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15957	15957	15957
5°	16017	15861	15946
10°	15973	15843	15944
15°	15860	15802	15919
20°	15716	15716	15881
25°	15515	15593	15764
30°	15256	15403	15599
35°	14903	15145	15352
40°	14459	14754	14976
45°	13843	14244	14484
50°	13116	13644	13908
55°	12307	12899	13269
60°	11402	12137	12618
65°	10477	11313	11950
70°	9472	10423	11208
75°	8471	9510	10385
80°	7331	8553	9451
85°	6168	7467	8113



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	286.7	3.5
10°-20°	821.5	10.2
20°-30°	1240.2	15.4
30°-40°	1472.0	18.2
40°-50°	1472.6	18.2
50°-60°	1255.0	15.5
60°-70°	897.0	11.1
70°-80°	495.2	6.1
80°-90°	139.1	1.7
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°	2348.4	29.1
0°-40°	3820.4	47.3
0°-60°	6548.1	81.0
0°-90°	8079.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8079.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3031	3031	3031	3031	3031	
5°	3031	3020	3001	3023	3017	288
15°	2910	2907	2899	2926	2920	821
25°	2671	2676	2684	2719	2714	1230
35°	2319	2332	2356	2383	2388	1449
45°	1859	1883	1913	1945	1945	1434
55°	1341	1365	1405	1443	1446	1200
65°	841	860	908	951	959	835
75°	416	427	468	502	510	444
85°	102	108	124	134	134	120
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3030.7	3030.7	3030.7	3030.7	3030.7
2.5°	3038.7	3028.0	3009.2	3028.0	3025.3
5°	3030.7	3019.9	3001.1	3022.6	3017.2
7.5°	3011.9	3001.1	2987.7	3006.5	3003.8
10°	2987.7	2976.9	2963.5	2987.7	2982.3
12.5°	2952.8	2947.4	2934.0	2960.8	2955.5
15°	2909.8	2907.1	2899.0	2925.9	2920.5
17.5°	2861.4	2858.7	2856.0	2885.6	2880.2
20°	2805.0	2805.0	2805.0	2834.5	2834.5
22.5°	2743.2	2743.2	2748.6	2780.8	2780.8
25°	2670.7	2676.0	2684.1	2719.0	2713.6
27.5°	2595.4	2600.8	2611.5	2649.2	2649.2
30°	2509.4	2517.5	2533.6	2565.9	2565.9
32.5°	2418.1	2428.8	2447.7	2479.9	2479.9
35°	2318.7	2332.1	2356.3	2383.2	2388.5
37.5°	2213.9	2224.6	2251.5	2286.4	2286.4
40°	2103.7	2119.9	2146.7	2179.0	2179.0
42.5°	1985.5	2001.6	2033.9	2063.4	2066.1
45°	1859.2	1883.4	1913.0	1945.2	1945.2
47.5°	1735.7	1757.1	1792.1	1818.9	1824.3
50°	1601.3	1630.9	1665.8	1695.4	1698.0
52.5°	1472.4	1499.2	1536.8	1571.8	1574.4
55°	1340.7	1364.9	1405.2	1442.8	1445.5
57.5°	1214.4	1238.6	1281.6	1319.2	1321.9
60°	1082.8	1104.3	1152.6	1190.2	1198.3
62.5°	961.9	983.4	1026.3	1072.0	1077.4
65°	841.0	859.8	908.1	951.1	959.2
67.5°	725.4	741.5	789.9	830.2	838.3
70°	615.3	631.4	677.1	717.4	728.1
72.5°	513.2	526.6	569.6	607.2	618.0
75°	416.4	427.2	467.5	502.4	510.5
77.5°	325.1	335.8	370.8	403.0	408.4
80°	241.8	249.9	282.1	306.3	311.7
82.5°	169.3	177.3	198.8	217.6	220.3
85°	102.1	107.5	123.6	134.3	134.3
87.5°	48.4	48.4	56.4	59.1	56.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)