

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: P189011

Luminaire Tested: **RZL-NL-680L8830-1D-UNV-STD-W-4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P189011  
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-680L8830-1D-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: 6579.6 lumens  
Efficiency: N/A  
Efficacy: 116.5 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

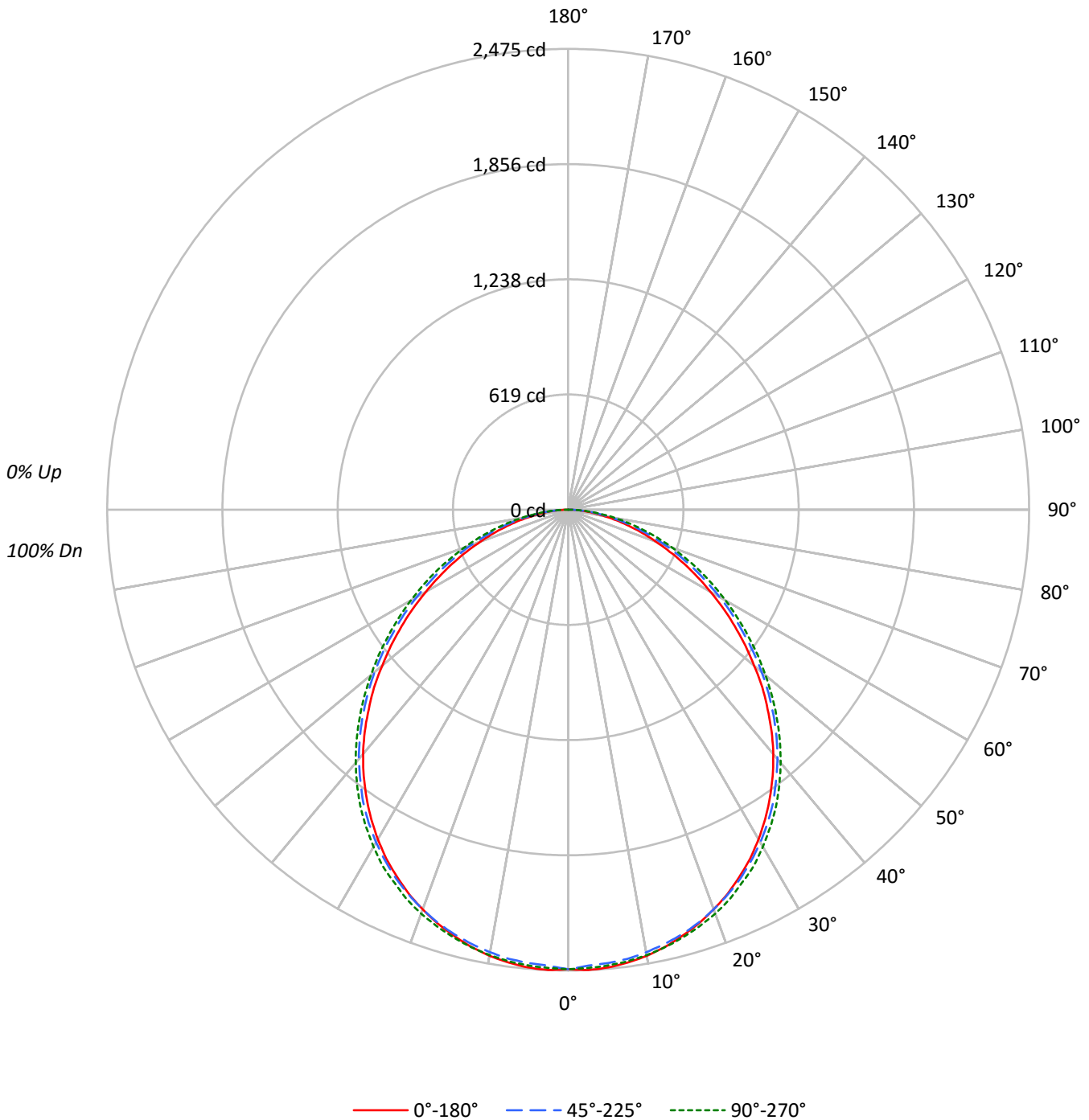
Input Watts (W): 56.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	12994	12994	12994
5°	13044	12917	12986
10°	13008	12902	12984
15°	12916	12869	12964
20°	12799	12799	12934
25°	12635	12698	12838
30°	12424	12544	12704
35°	12137	12333	12502
40°	11775	12016	12196
45°	11274	11600	11795
50°	10682	11112	11326
55°	10022	10504	10806
60°	9285	9884	10276
65°	8532	9214	9731
70°	7714	8488	9128
75°	6898	7744	8456
80°	5970	6964	7695
85°	5020	6083	6609



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	233.5	3.5
10°-20°	669.0	10.2
20°-30°	1010.0	15.3
30°-40°	1198.8	18.2
40°-50°	1199.3	18.2
50°-60°	1022.0	15.5
60°-70°	730.5	11.1
70°-80°	403.3	6.1
80°-90°	113.3	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°	1912.5	29.1
0°-40°	3111.3	47.3
0°-60°	5332.6	81.0
0°-90°	6579.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6579.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2468	2468	2468	2468	2468	
5°	2468	2459	2444	2462	2457	234
15°	2370	2368	2361	2383	2378	668
25°	2175	2179	2186	2214	2210	1002
35°	1888	1899	1919	1941	1945	1180
45°	1514	1534	1558	1584	1584	1168
55°	1092	1112	1144	1175	1177	977
65°	685	700	740	775	781	680
75°	339	348	381	409	416	361
85°	83	88	101	109	109	98
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2468.1	2468.1	2468.1	2468.1	2468.1
2.5°	2474.7	2465.9	2450.6	2465.9	2463.7
5°	2468.1	2459.4	2444.0	2461.6	2457.2
7.5°	2452.8	2444.0	2433.1	2448.4	2446.2
10°	2433.1	2424.4	2413.4	2433.1	2428.7
12.5°	2404.7	2400.3	2389.3	2411.2	2406.9
15°	2369.7	2367.5	2360.9	2382.8	2378.4
17.5°	2330.3	2328.1	2325.9	2350.0	2345.6
20°	2284.3	2284.3	2284.3	2308.4	2308.4
22.5°	2234.0	2234.0	2238.4	2264.6	2264.6
25°	2174.9	2179.3	2185.9	2214.3	2209.9
27.5°	2113.7	2118.0	2126.8	2157.4	2157.4
30°	2043.6	2050.2	2063.3	2089.6	2089.6
32.5°	1969.2	1978.0	1993.3	2019.6	2019.6
35°	1888.3	1899.2	1918.9	1940.8	1945.2
37.5°	1803.0	1811.7	1833.6	1862.0	1862.0
40°	1713.2	1726.4	1748.3	1774.5	1774.5
42.5°	1617.0	1630.1	1656.4	1680.4	1682.6
45°	1514.1	1533.8	1557.9	1584.1	1584.1
47.5°	1413.5	1431.0	1459.4	1481.3	1485.7
50°	1304.1	1328.1	1356.6	1380.7	1382.8
52.5°	1199.1	1220.9	1251.6	1280.0	1282.2
55°	1091.8	1111.5	1144.3	1175.0	1177.2
57.5°	989.0	1008.7	1043.7	1074.3	1076.5
60°	881.8	899.3	938.7	969.3	975.9
62.5°	783.3	800.8	835.8	873.0	877.4
65°	684.9	700.2	739.6	774.6	781.1
67.5°	590.8	603.9	643.3	676.1	682.7
70°	501.1	514.2	551.4	584.2	593.0
72.5°	417.9	428.9	463.9	494.5	503.3
75°	339.1	347.9	380.7	409.2	415.7
77.5°	264.8	273.5	302.0	328.2	332.6
80°	196.9	203.5	229.7	249.4	253.8
82.5°	137.8	144.4	161.9	177.2	179.4
85°	83.1	87.5	100.7	109.4	109.4
87.5°	39.4	39.4	45.9	48.1	45.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)