

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: P189015

Luminaire Tested: **RZL-NL-50L835-1D-UNV-STD-W-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P189015
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-50L835-1D-UNV-STD-W-4
Description: RZL LINEAR LED FIXTURE
WITH SOLID ALUMINUM SIDES, FROSTED LINEAR PRISMATIC LENS AND INLAY
Light Source: (224) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5218.6 lumens
Efficiency: N/A
Efficacy: 127.6 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

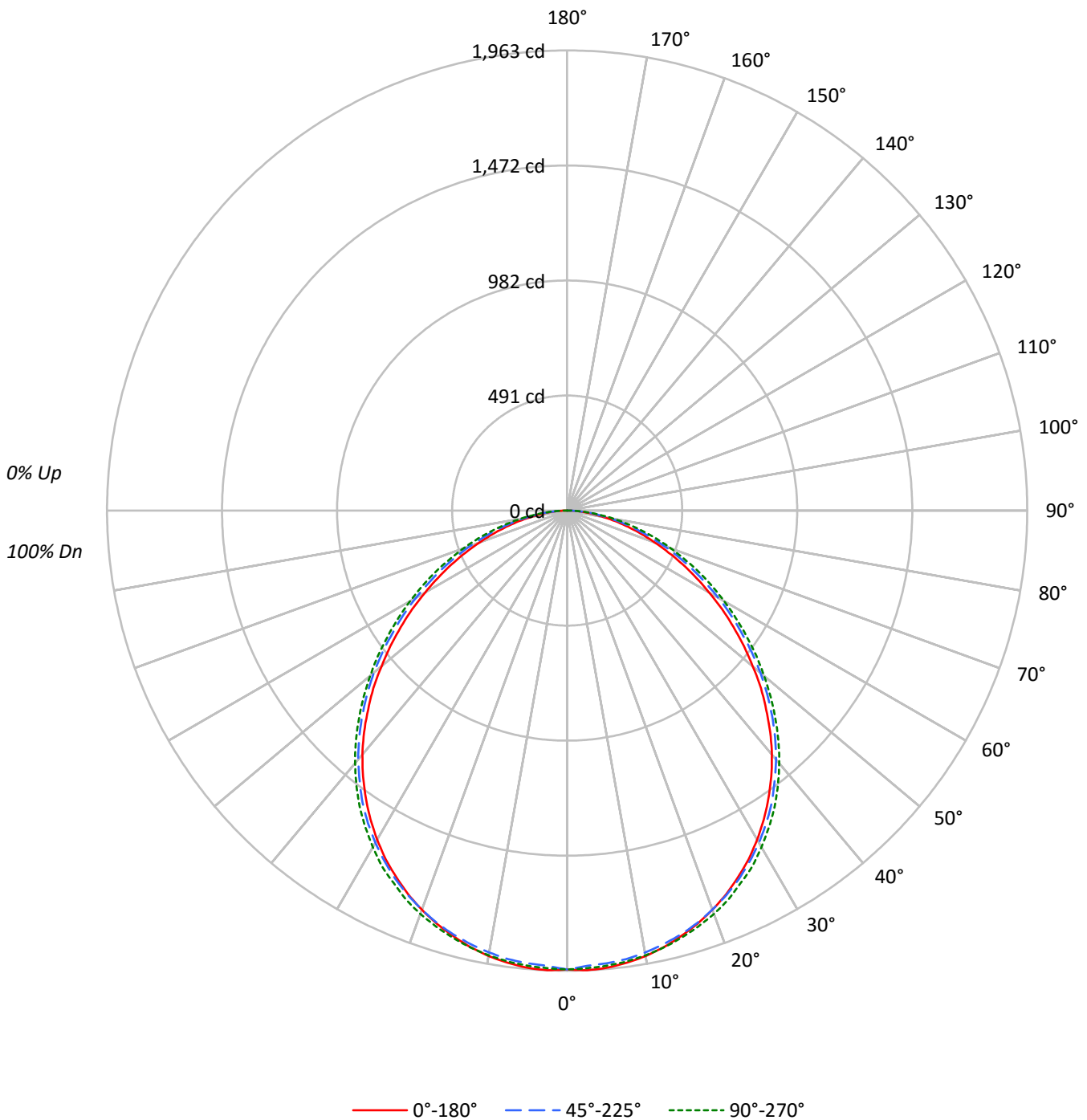
Input Watts (W): 40.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	10307	10307	10307
5°	10346	10245	10300
10°	10317	10234	10299
15°	10245	10207	10282
20°	10151	10151	10258
25°	10021	10071	10182
30°	9854	9949	10076
35°	9626	9782	9916
40°	9340	9530	9674
45°	8942	9200	9356
50°	8472	8813	8984
55°	7949	8331	8571
60°	7365	7840	8150
65°	6767	7308	7719
70°	6117	6732	7240
75°	5472	6143	6707
80°	4736	5524	6103
85°	3981	4821	5243



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.2	3.5
10°-20°	530.7	10.2
20°-30°	801.1	15.4
30°-40°	950.8	18.2
40°-50°	951.2	18.2
50°-60°	810.6	15.5
60°-70°	579.4	11.1
70°-80°	319.8	6.1
80°-90°	89.9	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°	1516.9	29.1
0°-40°	2467.7	47.3
0°-60°	4229.6	81.0
0°-90°	5218.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5218.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1958	1958	1958	1958	1958	
5°	1958	1951	1938	1952	1949	186
15°	1880	1878	1873	1890	1886	530
25°	1725	1728	1734	1756	1753	795
35°	1498	1506	1522	1539	1543	936
45°	1201	1217	1236	1256	1256	926
55°	866	882	908	932	934	775
65°	543	555	587	614	620	539
75°	269	276	302	324	330	287
85°	66	69	80	87	87	77
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1957.6	1957.6	1957.6	1957.6	1957.6
2.5°	1962.8	1955.9	1943.7	1955.9	1954.1
5°	1957.6	1950.7	1938.5	1952.4	1948.9
7.5°	1945.5	1938.5	1929.8	1942.0	1940.2
10°	1929.8	1922.9	1914.2	1929.8	1926.4
12.5°	1907.3	1903.8	1895.1	1912.5	1909.0
15°	1879.5	1877.8	1872.6	1889.9	1886.4
17.5°	1848.3	1846.5	1844.8	1863.9	1860.4
20°	1811.8	1811.8	1811.8	1830.9	1830.9
22.5°	1771.9	1771.9	1775.4	1796.2	1796.2
25°	1725.0	1728.5	1733.7	1756.3	1752.8
27.5°	1676.5	1679.9	1686.9	1711.2	1711.2
30°	1620.9	1626.1	1636.5	1657.4	1657.4
32.5°	1561.9	1568.9	1581.0	1601.8	1601.8
35°	1497.7	1506.4	1522.0	1539.4	1542.8
37.5°	1430.0	1437.0	1454.3	1476.9	1476.9
40°	1358.9	1369.3	1386.6	1407.5	1407.5
42.5°	1282.5	1292.9	1313.7	1332.8	1334.6
45°	1200.9	1216.6	1235.6	1256.5	1256.5
47.5°	1121.1	1135.0	1157.6	1174.9	1178.4
50°	1034.3	1053.4	1076.0	1095.1	1096.8
52.5°	951.0	968.4	992.7	1015.2	1017.0
55°	866.0	881.6	907.6	931.9	933.7
57.5°	784.4	800.0	827.8	852.1	853.8
60°	699.4	713.3	744.5	768.8	774.0
62.5°	621.3	635.2	662.9	692.4	695.9
65°	543.2	555.3	586.6	614.4	619.6
67.5°	468.6	479.0	510.2	536.3	541.5
70°	397.4	407.8	437.3	463.4	470.3
72.5°	331.5	340.2	367.9	392.2	399.2
75°	269.0	275.9	302.0	324.5	329.7
77.5°	210.0	216.9	239.5	260.3	263.8
80°	156.2	161.4	182.2	197.8	201.3
82.5°	109.3	114.5	128.4	140.6	142.3
85°	65.9	69.4	79.8	86.8	86.8
87.5°	31.2	31.2	36.4	38.2	36.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)