

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: P189036

Luminaire Tested: **RZL-WB-680L8840-1D-UNV-STD-W-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P189036
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34813)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: RZL-WB-680L8840-1D-UNV-STD-W-4
Description: RZL LINEAR LED FIXTURE
WITH LUMINOUS SIDES, SNAP-ON CLEAR LINEAR PRISMATIC LENS AND INTERNAL
BAFFLE
Light Source: (224) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6739.0 lumens
Efficiency: N/A
Efficacy: 119.3 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.22 / 1.27
Luminous Opening: Rectangular w/ Sides (W: 0.53' x L: 3.83' x H: 0.12')
CIE Type: Semi-Direct

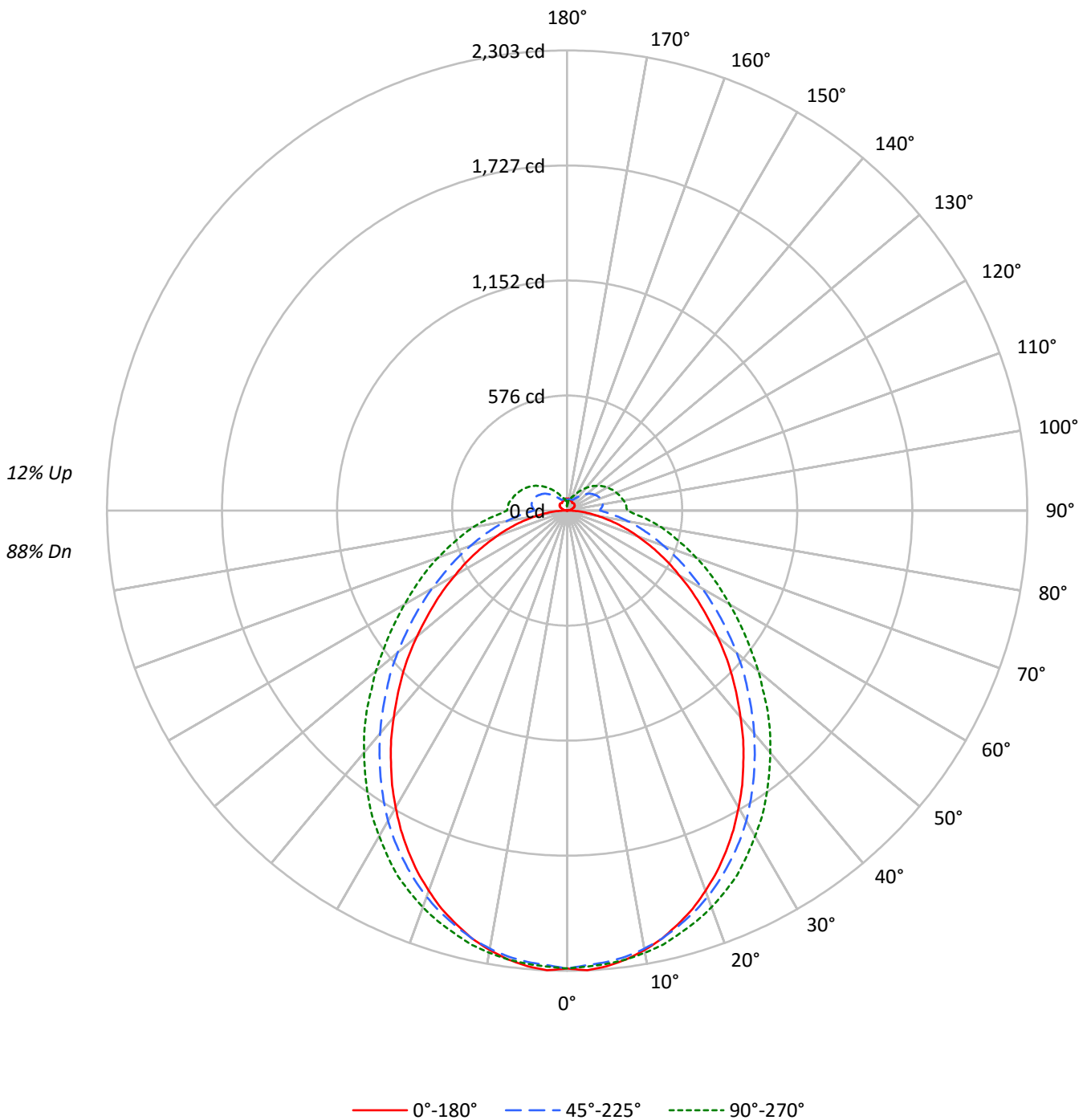
Input Watts (W): 56.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10	50	30	10	0		
RCR																										
0	116	116	116	116	112	112	112	112	104	104	104	97	97	97	91	91	91	88								
1	105	100	96	92	101	97	93	89	90	87	84	84	82	79	79	77	75	72								
2	96	88	81	75	92	85	78	73	79	74	70	74	70	66	69	66	63	60								
3	88	77	69	63	84	75	67	61	70	64	59	66	60	56	61	57	54	51								
4	80	68	60	53	77	66	58	52	62	56	50	59	53	48	55	50	46	44								
5	74	61	52	46	71	59	51	45	56	49	44	53	47	42	50	45	40	38								
6	68	55	47	40	66	54	46	40	51	44	38	48	42	37	45	40	36	34								
7	63	50	42	36	61	49	41	35	46	39	34	44	38	33	41	36	32	30								
8	59	46	38	32	57	45	37	31	42	35	31	40	34	30	38	33	29	27								
9	55	42	34	29	53	41	34	28	39	32	28	37	31	27	35	30	26	24								
10	52	39	31	26	50	38	31	26	36	30	25	34	29	24	33	28	24	22								

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12063	12063	12063
5°	12063	11792	11794
10°	11871	11519	11537
15°	11579	11166	11228
20°	11210	10784	10907
25°	10762	10327	10542
30°	10240	9827	10071
35°	9661	9242	9603
40°	9029	8641	9084
45°	8411	8018	8561
50°	7735	7412	8003
55°	7078	6790	7480
60°	6449	6201	7034
65°	5887	5676	6711
70°	5308	5195	6427
75°	4710	4843	6215
80°	4035	4551	6218
85°	3367	4348	6245



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	216.2	3.2
10°-20°	609.7	9.0
20°-30°	893.8	13.3
30°-40°	1022.6	15.2
40°-50°	994.0	14.7
50°-60°	845.0	12.5
60°-70°	644.0	9.6
70°-80°	437.3	6.5
80°-90°	253.1	3.8
90°-100°	179.9	2.7
100°-110°	175.7	2.6
110°-120°	154.7	2.3
120°-130°	122.6	1.8
130°-140°	85.5	1.3
140°-150°	53.1	0.8
150°-160°	30.3	0.4
160°-170°	16.5	0.2
170°-180°	5.1	0.1
0°-30°	1719.6	25.5
0°-40°	2742.3	40.7
0°-60°	4581.3	68.0
0°-90°	5915.6	87.8
90°-120°	510.3	7.6
90°-150°	771.5	11.4
90°-180°	823.0	12.2
0°-180°	6739.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2291	2291	2291	2291	2291	
5°	2289	2282	2268	2282	2277	217
15°	2143	2148	2152	2187	2189	603
25°	1881	1895	1934	1994	2013	865
35°	1538	1565	1628	1712	1739	961
45°	1166	1199	1280	1380	1419	899
55°	807	842	939	1044	1088	724
65°	506	536	640	761	809	503
75°	260	294	406	524	573	277
85°	76	123	227	339	380	78
90°	0	58	165	269	302	5
95°	5	63	174	274	297	6
105°	21	74	181	262	276	21
115°	37	79	169	236	248	36
125°	46	72	146	199	213	41
135°	49	60	111	158	172	38
145°	46	58	76	114	125	30
155°	51	58	60	72	86	24
165°	58	58	58	56	63	16
175°	60	60	56	44	35	6
180°	49	49	49	49	49	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2291.2	2291.2	2291.2	2291.2	2291.2
2.5°	2302.8	2293.6	2277.3	2288.9	2284.3
5°	2288.9	2282.0	2268.1	2282.0	2277.3
7.5°	2265.7	2261.1	2251.8	2268.1	2265.7
10°	2233.3	2230.9	2226.3	2249.5	2247.2
12.5°	2193.8	2193.8	2193.8	2221.7	2224.0
15°	2142.8	2147.5	2152.1	2186.9	2189.2
17.5°	2089.5	2096.4	2108.0	2149.8	2154.4
20°	2024.6	2033.8	2057.0	2105.7	2112.7
22.5°	1957.3	1968.9	1999.0	2052.4	2064.0
25°	1880.8	1894.7	1934.1	1994.4	2013.0
27.5°	1801.9	1820.5	1866.9	1929.5	1948.0
30°	1716.1	1739.3	1792.6	1859.9	1880.8
32.5°	1630.3	1655.8	1711.5	1785.7	1815.8
35°	1537.5	1565.4	1628.0	1711.5	1739.3
37.5°	1447.1	1477.2	1542.2	1632.6	1660.5
40°	1349.7	1389.1	1456.4	1549.1	1581.6
42.5°	1256.9	1294.0	1368.3	1465.7	1502.8
45°	1166.5	1199.0	1280.1	1379.8	1419.3
47.5°	1076.0	1108.5	1196.6	1291.7	1328.8
50°	981.0	1013.4	1108.5	1210.6	1250.0
52.5°	892.8	925.3	1020.4	1122.4	1164.2
55°	807.0	841.8	939.2	1043.6	1087.6
57.5°	728.2	758.3	858.1	967.1	1011.1
60°	647.0	679.5	781.5	892.8	939.2
62.5°	577.4	605.3	705.0	823.3	872.0
65°	505.6	535.7	640.1	760.7	809.4
67.5°	438.3	470.8	575.1	698.0	749.1
70°	375.7	408.2	512.5	637.7	686.4
72.5°	317.7	352.5	456.9	579.8	628.5
75°	259.7	294.5	405.8	524.1	572.8
77.5°	206.4	248.1	357.1	477.7	524.1
80°	157.7	201.8	310.8	429.0	477.7
82.5°	113.6	160.0	266.7	385.0	426.7
85°	76.5	122.9	227.3	338.6	380.3
87.5°	37.1	88.1	192.5	299.2	331.6
90°	0.0	58.0	164.7	269.0	301.5
92.5°	2.3	60.3	167.0	271.3	296.8
95°	4.6	62.6	173.9	273.7	296.8
97.5°	9.3	67.3	178.6	273.7	294.5
100°	13.9	69.6	180.9	271.3	287.6
102.5°	16.2	71.9	180.9	269.0	280.6
105°	20.9	74.2	180.9	262.1	276.0
107.5°	23.2	76.5	180.9	257.4	269.0
110°	27.8	76.5	176.2	250.5	262.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	32.5	76.5	173.9	243.5	255.1
115°	37.1	78.8	169.3	236.5	248.1
117.5°	39.4	76.5	164.7	227.3	238.9
120°	44.1	76.5	157.7	218.0	231.9
122.5°	44.1	74.2	153.1	208.7	222.6
125°	46.4	71.9	146.1	199.4	213.4
127.5°	46.4	69.6	139.1	190.2	204.1
130°	48.7	64.9	129.9	178.6	192.5
132.5°	48.7	62.6	120.6	169.3	183.2
135°	48.7	60.3	111.3	157.7	171.6
137.5°	48.7	60.3	102.0	146.1	160.0
140°	48.7	58.0	92.8	136.8	148.4
142.5°	46.4	58.0	85.8	125.2	136.8
145°	46.4	58.0	76.5	113.6	125.2
147.5°	46.4	58.0	71.9	102.0	113.6
150°	48.7	58.0	64.9	90.4	104.4
152.5°	51.0	58.0	60.3	81.2	95.1
155°	51.0	58.0	60.3	71.9	85.8
157.5°	53.3	58.0	60.3	62.6	76.5
160°	53.3	58.0	60.3	58.0	71.9
162.5°	55.7	58.0	60.3	58.0	67.3
165°	58.0	58.0	58.0	55.7	62.6
167.5°	58.0	60.3	58.0	51.0	60.3
170°	60.3	60.3	58.0	48.7	55.7
172.5°	60.3	60.3	55.7	46.4	44.1
175°	60.3	60.3	55.7	44.1	34.8
177.5°	60.3	60.3	55.7	44.1	20.9
180°	48.7	48.7	48.7	48.7	48.7

(END OF REPORT)