

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: P189037

Luminaire Tested: **RZL-WB-80L840-1D-UNV-STD-W-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P189037
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-80L840-1D-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: 8275.0 lumens
Efficiency: N/A
Efficacy: 110.6 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

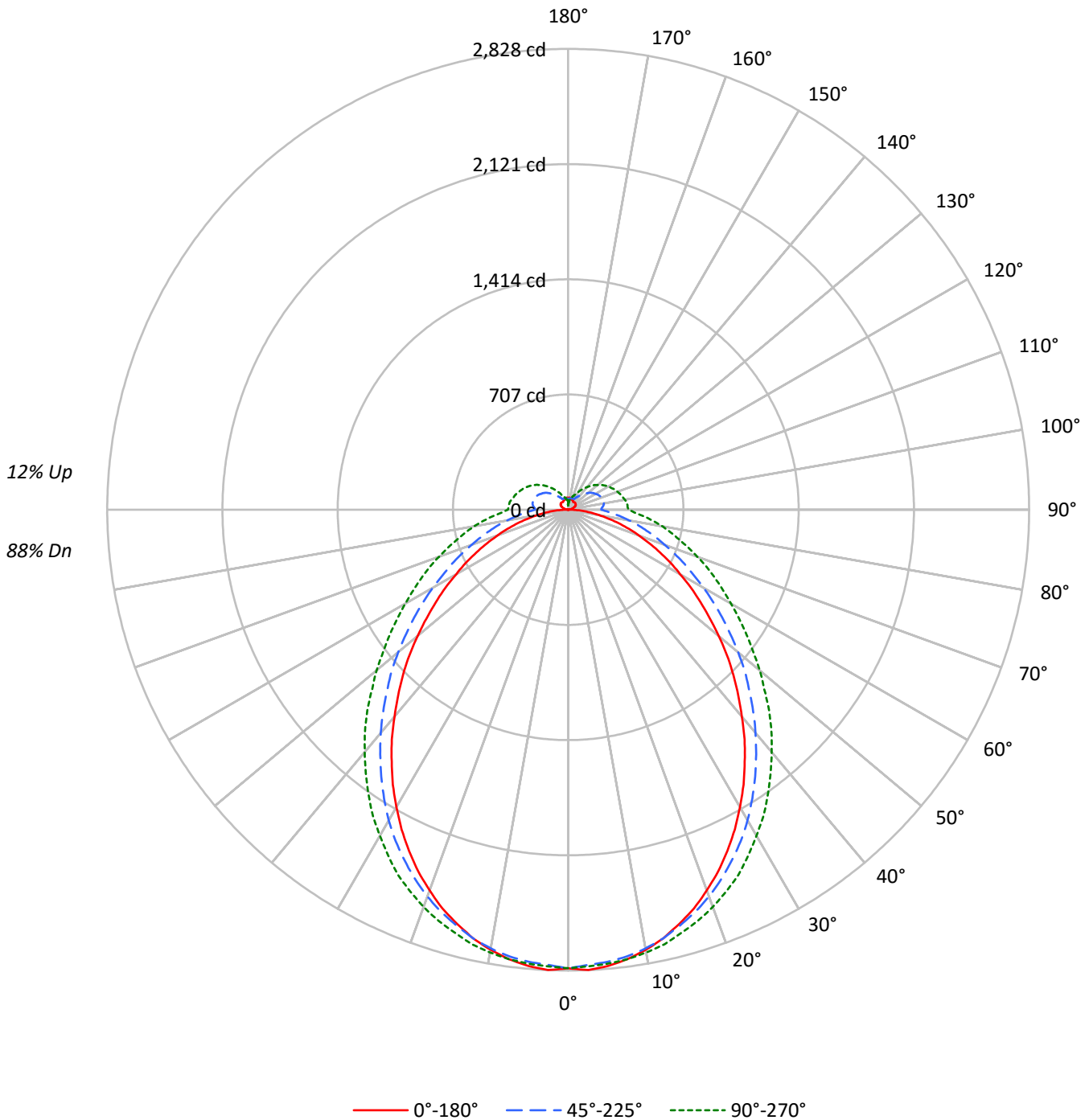
Input Watts (W): 74.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	14813	14813	14813
5°	14812	14480	14482
10°	14577	14145	14167
15°	14218	13710	13787
20°	13765	13242	13392
25°	13215	12681	12945
30°	12574	12067	12367
35°	11864	11349	11792
40°	11087	10610	11154
45°	10329	9845	10513
50°	9498	9102	9827
55°	8692	8338	9185
60°	7919	7615	8638
65°	7228	6970	8239
70°	6517	6379	7893
75°	5783	5947	7633
80°	4954	5588	7636
85°	4137	5339	7668



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	265.5	3.2
10°-20°	748.7	9.0
20°-30°	1097.5	13.3
30°-40°	1255.7	15.2
40°-50°	1220.6	14.7
50°-60°	1037.6	12.5
60°-70°	790.8	9.6
70°-80°	536.9	6.5
80°-90°	310.7	3.8
90°-100°	220.9	2.7
100°-110°	215.8	2.6
110°-120°	190.0	2.3
120°-130°	150.5	1.8
130°-140°	105.0	1.3
140°-150°	65.2	0.8
150°-160°	37.2	0.4
160°-170°	20.3	0.2
170°-180°	6.2	0.1
0°-30°	2111.6	25.5
0°-40°	3367.3	40.7
0°-60°	5625.5	68.0
0°-90°	7264.0	87.8
90°-120°	626.6	7.6
90°-150°	947.3	11.4
90°-180°	1011.0	12.2
0°-180°	8275.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2814	2814	2814	2814	2814	
5°	2811	2802	2785	2802	2796	266
15°	2631	2637	2643	2685	2688	741
25°	2310	2326	2375	2449	2472	1062
35°	1888	1922	1999	2102	2136	1180
45°	1432	1472	1572	1694	1743	1104
55°	991	1034	1153	1281	1336	889
65°	621	658	786	934	994	617
75°	319	362	498	644	703	340
85°	94	151	279	416	467	96
90°	0	71	202	330	370	7
95°	6	77	214	336	364	7
105°	26	91	222	322	339	26
115°	46	97	208	290	305	44
125°	57	88	179	245	262	50
135°	60	74	137	194	211	46
145°	57	71	94	140	154	36
155°	63	71	74	88	105	29
165°	71	71	71	68	77	20
175°	74	74	68	54	43	7
180°	60	60	60	60	60	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2813.5	2813.5	2813.5	2813.5	2813.5
2.5°	2827.7	2816.3	2796.4	2810.6	2804.9
5°	2810.6	2802.1	2785.0	2802.1	2796.4
7.5°	2782.2	2776.5	2765.1	2785.0	2782.2
10°	2742.3	2739.5	2733.8	2762.2	2759.4
12.5°	2693.9	2693.9	2693.9	2728.1	2730.9
15°	2631.2	2636.9	2642.6	2685.3	2688.2
17.5°	2565.7	2574.3	2588.5	2639.8	2645.5
20°	2486.0	2497.4	2525.9	2585.7	2594.2
22.5°	2403.4	2417.7	2454.7	2520.2	2534.4
25°	2309.5	2326.5	2375.0	2449.0	2471.8
27.5°	2212.6	2235.4	2292.4	2369.3	2392.0
30°	2107.3	2135.7	2201.2	2283.8	2309.5
32.5°	2001.9	2033.2	2101.6	2192.7	2229.7
35°	1888.0	1922.2	1999.1	2101.6	2135.7
37.5°	1776.9	1814.0	1893.7	2004.8	2038.9
40°	1657.3	1705.7	1788.3	1902.2	1942.1
42.5°	1543.4	1589.0	1680.1	1799.7	1845.3
45°	1432.4	1472.2	1571.9	1694.4	1742.8
47.5°	1321.3	1361.2	1469.4	1586.1	1631.7
50°	1204.6	1244.4	1361.2	1486.5	1534.9
52.5°	1096.4	1136.2	1253.0	1378.3	1429.5
55°	991.0	1033.7	1153.3	1281.4	1335.6
57.5°	894.2	931.2	1053.6	1187.5	1241.6
60°	794.5	834.4	959.7	1096.4	1153.3
62.5°	709.1	743.2	865.7	1010.9	1070.7
65°	620.8	657.8	786.0	934.0	993.8
67.5°	538.2	578.1	706.2	857.1	919.8
70°	461.3	501.2	629.3	783.1	842.9
72.5°	390.1	432.8	561.0	711.9	771.7
75°	318.9	361.7	498.3	643.6	703.4
77.5°	253.4	304.7	438.5	586.6	643.6
80°	193.6	247.7	381.6	526.8	586.6
82.5°	139.5	196.5	327.5	472.7	524.0
85°	94.0	150.9	279.1	415.8	467.0
87.5°	45.6	108.2	236.4	367.3	407.2
90°	0.0	71.2	202.2	330.3	370.2
92.5°	2.8	74.0	205.0	333.2	364.5
95°	5.7	76.9	213.6	336.0	364.5
97.5°	11.4	82.6	219.3	336.0	361.7
100°	17.1	85.4	222.1	333.2	353.1
102.5°	19.9	88.3	222.1	330.3	344.6
105°	25.6	91.1	222.1	321.8	338.9
107.5°	28.5	94.0	222.1	316.1	330.3
110°	34.2	94.0	216.4	307.5	321.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	39.9	94.0	213.6	299.0	313.2
115°	45.6	96.8	207.9	290.5	304.7
117.5°	48.4	94.0	202.2	279.1	293.3
120°	54.1	94.0	193.6	267.7	284.8
122.5°	54.1	91.1	187.9	256.3	273.4
125°	57.0	88.3	179.4	244.9	262.0
127.5°	57.0	85.4	170.9	233.5	250.6
130°	59.8	79.7	159.5	219.3	236.4
132.5°	59.8	76.9	148.1	207.9	225.0
135°	59.8	74.0	136.7	193.6	210.7
137.5°	59.8	74.0	125.3	179.4	196.5
140°	59.8	71.2	113.9	168.0	182.3
142.5°	57.0	71.2	105.4	153.8	168.0
145°	57.0	71.2	94.0	139.5	153.8
147.5°	57.0	71.2	88.3	125.3	139.5
150°	59.8	71.2	79.7	111.1	128.1
152.5°	62.6	71.2	74.0	99.7	116.8
155°	62.6	71.2	74.0	88.3	105.4
157.5°	65.5	71.2	74.0	76.9	94.0
160°	65.5	71.2	74.0	71.2	88.3
162.5°	68.3	71.2	74.0	71.2	82.6
165°	71.2	71.2	71.2	68.3	76.9
167.5°	71.2	74.0	71.2	62.6	74.0
170°	74.0	74.0	71.2	59.8	68.3
172.5°	74.0	74.0	68.3	57.0	54.1
175°	74.0	74.0	68.3	54.1	42.7
177.5°	74.0	74.0	68.3	54.1	25.6
180°	59.8	59.8	59.8	59.8	59.8

(END OF REPORT)