

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: P189034

Luminaire Tested: **RZL-WB-40L840-1D-UNV-STD-W-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P189034
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-40L840-1D-UNV-STD-W-4
Description: RZL LINEAR LED FIXTURE
WITH LUMINOUS SIDES, SNAP-ON CLEAR LINEAR PRISMATIC LENS AND INTERNAL
BAFFLE
Light Source: (112) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4082.0 lumens
Efficiency: N/A
Efficacy: 117.6 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

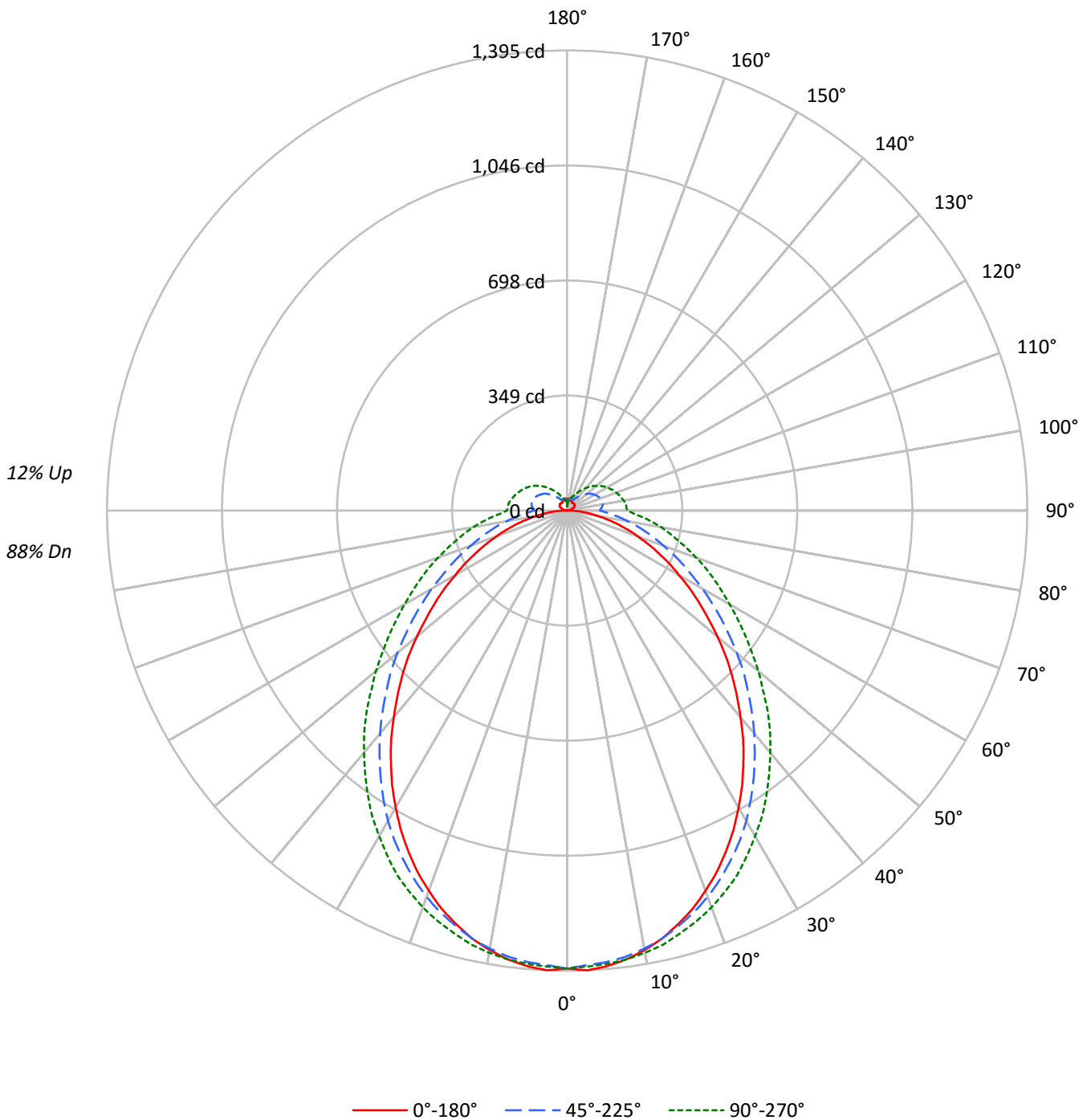
Input Watts (W): 34.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	7307	7307	7307
5°	7307	7143	7144
10°	7191	6977	6988
15°	7014	6763	6801
20°	6790	6532	6606
25°	6519	6255	6385
30°	6203	5953	6100
35°	5852	5598	5817
40°	5470	5234	5502
45°	5095	4857	5186
50°	4685	4490	4848
55°	4287	4113	4531
60°	3906	3757	4261
65°	3565	3438	4065
70°	3216	3146	3894
75°	2853	2933	3765
80°	2444	2756	3767
85°	2042	2634	3783



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.0	3.2
10°-20°	369.3	9.0
20°-30°	541.4	13.3
30°-40°	619.4	15.2
40°-50°	602.1	14.7
50°-60°	511.8	12.5
60°-70°	390.1	9.6
70°-80°	264.9	6.5
80°-90°	153.3	3.8
90°-100°	109.0	2.7
100°-110°	106.4	2.6
110°-120°	93.7	2.3
120°-130°	74.3	1.8
130°-140°	51.8	1.3
140°-150°	32.2	0.8
150°-160°	18.3	0.4
160°-170°	10.0	0.2
170°-180°	3.1	0.1
0°-30°	1041.6	25.5
0°-40°	1661.1	40.7
0°-60°	2775.0	68.0
0°-90°	3583.3	87.8
90°-120°	309.1	7.6
90°-150°	467.3	11.4
90°-180°	499.0	12.2
0°-180°	4082.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1388	1388	1388	1388	1388	
5°	1386	1382	1374	1382	1379	131
15°	1298	1301	1304	1325	1326	365
25°	1139	1148	1172	1208	1219	524
35°	931	948	986	1037	1054	582
45°	707	726	775	836	860	545
55°	489	510	569	632	659	439
65°	306	324	388	461	490	304
75°	157	178	246	318	347	168
85°	46	74	138	205	230	47
90°	0	35	100	163	183	3
95°	3	38	105	166	180	4
105°	13	45	110	159	167	13
115°	22	48	102	143	150	22
125°	28	44	88	121	129	25
135°	30	36	67	96	104	23
145°	28	35	46	69	76	18
155°	31	35	36	44	52	14
165°	35	35	35	34	38	10
175°	36	36	34	27	21	3
180°	30	30	30	30	30	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1387.9	1387.9	1387.9	1387.9	1387.9
2.5°	1394.9	1389.3	1379.4	1386.5	1383.7
5°	1386.5	1382.3	1373.8	1382.3	1379.4
7.5°	1372.4	1369.6	1364.0	1373.8	1372.4
10°	1352.8	1351.4	1348.5	1362.6	1361.2
12.5°	1328.9	1328.9	1328.9	1345.7	1347.1
15°	1298.0	1300.8	1303.6	1324.7	1326.1
17.5°	1265.7	1269.9	1276.9	1302.2	1305.0
20°	1226.3	1232.0	1246.0	1275.5	1279.7
22.5°	1185.6	1192.6	1210.9	1243.2	1250.2
25°	1139.2	1147.7	1171.5	1208.1	1219.3
27.5°	1091.5	1102.7	1130.8	1168.7	1180.0
30°	1039.5	1053.6	1085.9	1126.6	1139.2
32.5°	987.5	1003.0	1036.7	1081.6	1099.9
35°	931.3	948.2	986.1	1036.7	1053.6
37.5°	876.6	894.8	934.1	988.9	1005.8
40°	817.6	841.4	882.2	938.4	958.0
42.5°	761.4	783.8	828.8	887.8	910.3
45°	706.6	726.2	775.4	835.8	859.7
47.5°	651.8	671.5	724.8	782.4	804.9
50°	594.2	613.9	671.5	733.3	757.2
52.5°	540.8	560.5	618.1	679.9	705.2
55°	488.8	509.9	568.9	632.1	658.8
57.5°	441.1	459.3	519.8	585.8	612.5
60°	391.9	411.6	473.4	540.8	568.9
62.5°	349.8	366.6	427.0	498.7	528.2
65°	306.2	324.5	387.7	460.8	490.3
67.5°	265.5	285.2	348.4	422.8	453.7
70°	227.6	247.2	310.4	386.3	415.8
72.5°	192.4	213.5	276.7	351.2	380.7
75°	157.3	178.4	245.8	317.5	347.0
77.5°	125.0	150.3	216.3	289.4	317.5
80°	95.5	122.2	188.2	259.9	289.4
82.5°	68.8	96.9	161.5	233.2	258.5
85°	46.4	74.5	137.7	205.1	230.4
87.5°	22.5	53.4	116.6	181.2	200.9
90°	0.0	35.1	99.7	162.9	182.6
92.5°	1.4	36.5	101.1	164.4	179.8
95°	2.8	37.9	105.4	165.8	179.8
97.5°	5.6	40.7	108.2	165.8	178.4
100°	8.4	42.1	109.6	164.4	174.2
102.5°	9.8	43.5	109.6	162.9	170.0
105°	12.6	45.0	109.6	158.7	167.2
107.5°	14.0	46.4	109.6	155.9	162.9
110°	16.9	46.4	106.8	151.7	158.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	19.7	46.4	105.4	147.5	154.5
115°	22.5	47.8	102.5	143.3	150.3
117.5°	23.9	46.4	99.7	137.7	144.7
120°	26.7	46.4	95.5	132.0	140.5
122.5°	26.7	45.0	92.7	126.4	134.9
125°	28.1	43.5	88.5	120.8	129.2
127.5°	28.1	42.1	84.3	115.2	123.6
130°	29.5	39.3	78.7	108.2	116.6
132.5°	29.5	37.9	73.0	102.5	111.0
135°	29.5	36.5	67.4	95.5	104.0
137.5°	29.5	36.5	61.8	88.5	96.9
140°	29.5	35.1	56.2	82.9	89.9
142.5°	28.1	35.1	52.0	75.9	82.9
145°	28.1	35.1	46.4	68.8	75.9
147.5°	28.1	35.1	43.5	61.8	68.8
150°	29.5	35.1	39.3	54.8	63.2
152.5°	30.9	35.1	36.5	49.2	57.6
155°	30.9	35.1	36.5	43.5	52.0
157.5°	32.3	35.1	36.5	37.9	46.4
160°	32.3	35.1	36.5	35.1	43.5
162.5°	33.7	35.1	36.5	35.1	40.7
165°	35.1	35.1	35.1	33.7	37.9
167.5°	35.1	36.5	35.1	30.9	36.5
170°	36.5	36.5	35.1	29.5	33.7
172.5°	36.5	36.5	33.7	28.1	26.7
175°	36.5	36.5	33.7	26.7	21.1
177.5°	36.5	36.5	33.7	26.7	12.6
180°	29.5	29.5	29.5	29.5	29.5

(END OF REPORT)