

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: P189019

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P189019
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-40L840-1D-UNV-STD-W-4
Description: RZL LINEAR LED FIXTURE
WITH SOLID ALUMINUM SIDES, FROSTED LINEAR PRISMATIC LENS AND INLAY
Light Source: (112) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4223.9 lumens
Efficiency: N/A
Efficacy: 121.7 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

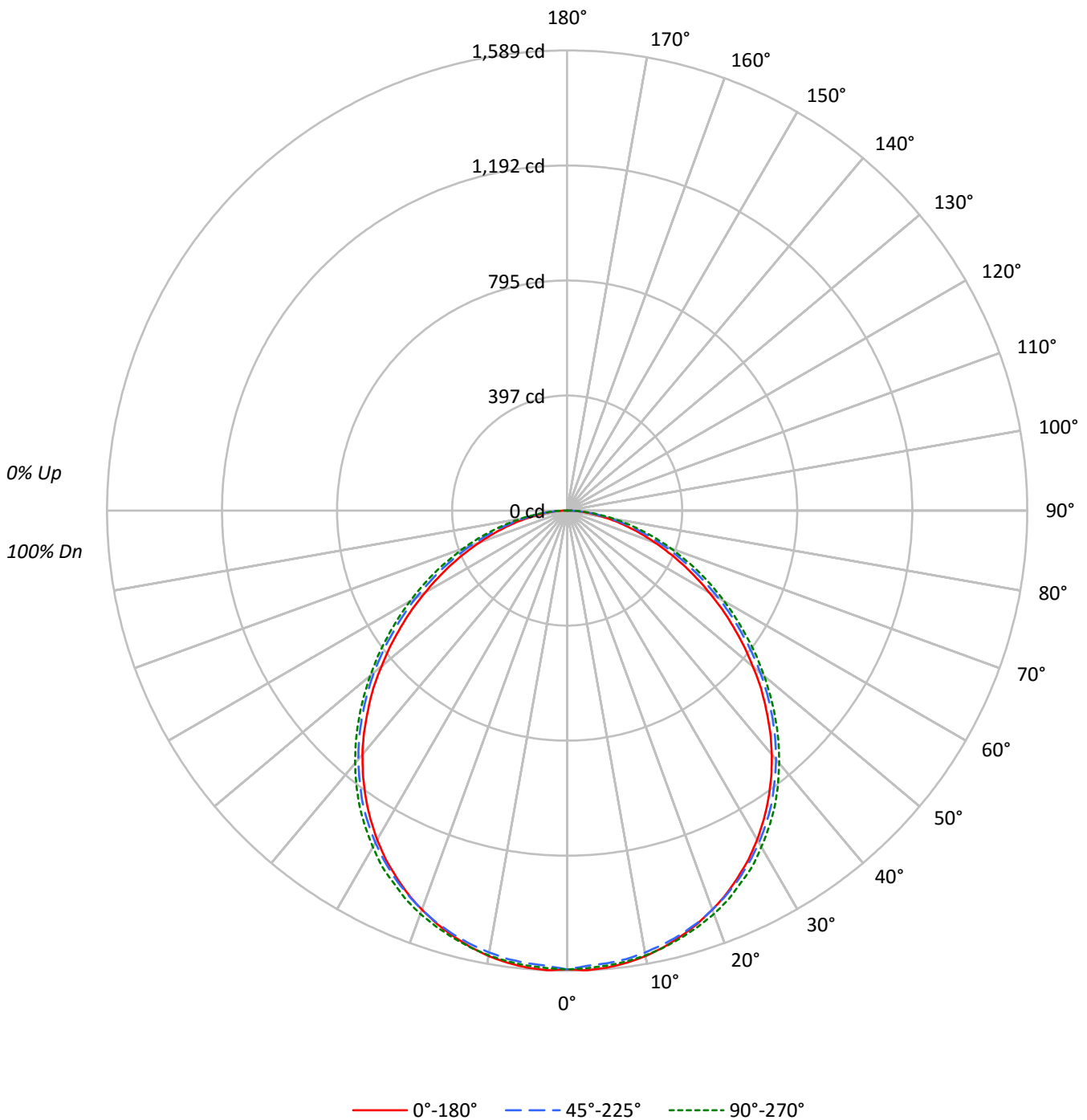
Input Watts (W): 34.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	109	104	100	97	106	102	98	95	98	95	92	94	91	89	90	88	86	84					84			
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71					71			
3	91	81	73	66	88	79	72	66	76	70	64	73	68	63	71	66	62	60					60			
4	83	72	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	52					52			
5	77	64	55	49	75	63	55	48	61	53	48	59	52	47	57	51	47	45					45			
6	71	58	49	43	69	57	48	42	55	48	42	53	47	42	52	46	41	39					39			
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35					35			
8	61	48	40	34	60	47	39	34	46	39	33	45	38	33	44	37	33	31					31			
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28					28			
10	54	41	33	28	52	40	33	28	39	32	27	38	32	27	37	31	27	25					25			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8342	8342	8342
5°	8374	8292	8337
10°	8351	8283	8336
15°	8292	8261	8323
20°	8217	8217	8303
25°	8111	8152	8242
30°	7976	8053	8155
35°	7791	7918	8026
40°	7559	7713	7830
45°	7237	7447	7572
50°	6857	7133	7271
55°	6434	6743	6937
60°	5961	6345	6597
65°	5478	5915	6248
70°	4952	5449	5860
75°	4429	4972	5429
80°	3832	4472	4939
85°	3226	3902	4241



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.9	3.5
10°-20°	429.5	10.2
20°-30°	648.4	15.3
30°-40°	769.6	18.2
40°-50°	769.9	18.2
50°-60°	656.1	15.5
60°-70°	468.9	11.1
70°-80°	258.9	6.1
80°-90°	72.7	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°	1227.8	29.1
0°-40°	1997.3	47.3
0°-60°	3423.3	81.0
0°-90°	4223.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4223.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1584	1584	1584	1584	1584	
5°	1584	1579	1569	1580	1577	150
15°	1521	1520	1516	1530	1527	429
25°	1396	1399	1403	1422	1419	643
35°	1212	1219	1232	1246	1249	757
45°	972	985	1000	1017	1017	750
55°	701	714	735	754	756	627
65°	440	450	475	497	502	437
75°	218	223	244	263	267	232
85°	53	56	65	70	70	63
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1584.4	1584.4	1584.4	1584.4	1584.4
2.5°	1588.7	1583.0	1573.2	1583.0	1581.6
5°	1584.4	1578.8	1569.0	1580.2	1577.4
7.5°	1574.6	1569.0	1562.0	1571.8	1570.4
10°	1562.0	1556.4	1549.3	1562.0	1559.2
12.5°	1543.7	1540.9	1533.9	1547.9	1545.1
15°	1521.2	1519.8	1515.6	1529.7	1526.9
17.5°	1496.0	1494.6	1493.1	1508.6	1505.8
20°	1466.5	1466.5	1466.5	1481.9	1481.9
22.5°	1434.2	1434.2	1437.0	1453.8	1453.8
25°	1396.2	1399.0	1403.2	1421.5	1418.7
27.5°	1356.9	1359.7	1365.3	1385.0	1385.0
30°	1311.9	1316.2	1324.6	1341.4	1341.4
32.5°	1264.2	1269.8	1279.6	1296.5	1296.5
35°	1212.2	1219.2	1231.9	1245.9	1248.7
37.5°	1157.4	1163.1	1177.1	1195.4	1195.4
40°	1099.8	1108.3	1122.3	1139.2	1139.2
42.5°	1038.0	1046.5	1063.3	1078.8	1080.2
45°	972.0	984.7	1000.1	1017.0	1017.0
47.5°	907.4	918.6	936.9	950.9	953.8
50°	837.2	852.6	870.9	886.3	887.7
52.5°	769.7	783.8	803.5	821.7	823.1
55°	700.9	713.6	734.6	754.3	755.7
57.5°	634.9	647.5	670.0	689.7	691.1
60°	566.1	577.3	602.6	622.3	626.5
62.5°	502.9	514.1	536.6	560.5	563.3
65°	439.7	449.5	474.8	497.2	501.5
67.5°	379.3	387.7	413.0	434.0	438.3
70°	321.7	330.1	354.0	375.0	380.7
72.5°	268.3	275.3	297.8	317.5	323.1
75°	217.7	223.3	244.4	262.7	266.9
77.5°	170.0	175.6	193.8	210.7	213.5
80°	126.4	130.6	147.5	160.1	162.9
82.5°	88.5	92.7	103.9	113.8	115.2
85°	53.4	56.2	64.6	70.2	70.2
87.5°	25.3	25.3	29.5	30.9	29.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)