

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: P189065

Luminaire Tested: **RZL-WF-50L840-1D-UNV-STD-W-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P189065
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34815)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: RZL-WF-50L840-1D-UNV-STD-W-4
Description: RZL LINEAR LED FIXTURE
WITH PERFORATED SIDES, 11-CELL LOUVER AND CURVED SMOOTH FROSTED LENS
Light Source: (224) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5232.1 lumens
Efficiency: N/A
Efficacy: 127.9 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.27 / 1.33
Luminous Opening: Rectangular (W 0.53' x L: 3.83' x H: 0')
CIE Type: Direct

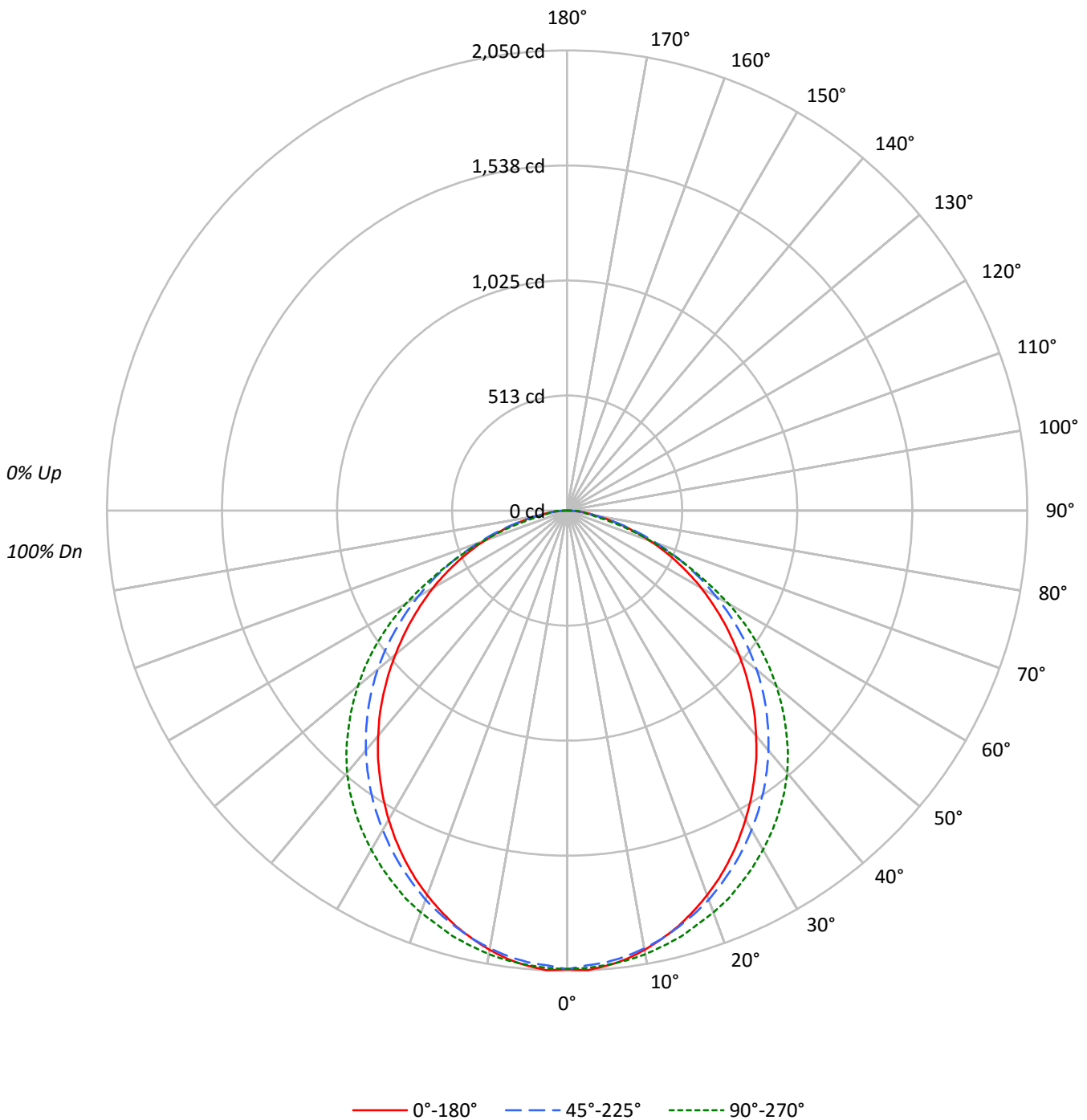
Input Watts (W): 40.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77	83	79	76	80	77	74	72
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61
4	84	72	64	57	82	71	63	57	68	61	56	66	60	55	64	59	55	52
5	77	65	56	49	75	64	55	49	61	54	49	59	53	48	58	52	48	46
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	47	42	40
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	32
9	58	44	36	31	56	44	36	31	43	36	31	42	35	31	41	35	30	29
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10754	10754	10754
5°	10757	10673	10739
10°	10624	10586	10729
15°	10443	10463	10706
20°	10215	10334	10675
25°	9959	10166	10643
30°	9663	9989	10607
35°	9345	9803	10560
40°	8999	9588	10483
45°	8620	9338	10268
50°	8183	9030	9965
55°	7729	8596	9513
60°	7270	8078	8735
65°	6690	7422	7533
70°	6014	6481	6179
75°	5153	5334	4463
80°	4002	3948	3029
85°	3449	3558	3987



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	192.5	3.7
10°-20°	544.8	10.4
20°-30°	812.5	15.5
30°-40°	961.4	18.4
40°-50°	971.5	18.6
50°-60°	836.7	16.0
60°-70°	577.1	11.0
70°-80°	268.7	5.1
80°-90°	66.9	1.3
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°	1549.8	29.6
0°-40°	2511.2	48.0
0°-60°	4319.4	82.6
0°-90°	5232.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5232.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2043	2043	2043	2043	2043	
5°	2035	2028	2019	2035	2032	193
15°	1916	1914	1920	1955	1964	539
25°	1714	1723	1750	1811	1832	789
35°	1454	1474	1525	1602	1643	909
45°	1158	1188	1254	1334	1379	893
55°	842	876	936	995	1036	754
65°	537	562	596	601	605	533
75°	253	266	262	234	219	270
85°	57	59	59	64	66	66
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2042.6	2042.6	2042.6	2042.6	2042.6
2.5°	2049.7	2040.8	2028.3	2042.6	2039.0
5°	2035.4	2028.3	2019.4	2035.4	2031.9
7.5°	2015.8	2008.7	2003.3	2022.9	2021.2
10°	1987.3	1983.7	1980.1	2005.1	2006.9
12.5°	1953.4	1951.6	1953.4	1981.9	1985.5
15°	1915.9	1914.1	1919.5	1955.2	1964.1
17.5°	1871.3	1873.1	1883.8	1923.0	1932.0
20°	1823.1	1826.7	1844.5	1890.9	1905.2
22.5°	1771.4	1776.8	1798.2	1851.7	1873.1
25°	1714.3	1723.2	1750.0	1810.7	1832.1
27.5°	1653.7	1664.4	1698.3	1762.5	1791.0
30°	1589.5	1603.7	1643.0	1712.5	1744.7
32.5°	1523.4	1539.5	1585.9	1659.0	1696.5
35°	1453.9	1473.5	1525.2	1601.9	1643.0
37.5°	1384.3	1405.7	1461.0	1543.1	1587.7
40°	1309.4	1332.6	1395.0	1478.8	1525.2
42.5°	1236.2	1261.2	1325.4	1411.1	1455.7
45°	1157.7	1188.1	1254.1	1334.4	1379.0
47.5°	1079.3	1109.6	1179.2	1252.3	1300.5
50°	999.0	1032.9	1102.4	1170.2	1216.6
52.5°	920.5	958.0	1022.2	1084.6	1131.0
55°	842.0	875.9	936.5	995.4	1036.4
57.5°	765.3	797.4	852.7	902.7	936.5
60°	690.4	718.9	767.1	804.5	829.5
62.5°	613.7	642.2	681.4	702.9	715.3
65°	537.0	561.9	595.8	601.2	604.7
67.5°	463.8	487.0	508.4	499.5	501.3
70°	390.7	410.3	421.0	403.2	401.4
72.5°	321.1	335.4	340.7	315.7	306.8
75°	253.3	265.8	262.2	233.7	219.4
77.5°	189.1	199.8	190.9	160.6	142.7
80°	132.0	137.4	130.2	105.2	99.9
82.5°	92.8	92.8	87.4	85.6	83.8
85°	57.1	58.9	58.9	64.2	66.0
87.5°	25.0	28.5	32.1	44.6	48.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)