

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: P189055

Luminaire Tested: **RZL-WF-50L830-1D-UNV-STD-W-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P189055
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-50L830-1D-UNV-STD-W-4
Description: RZL LINEAR LED FIXTURE
WITH PERFORATED SIDES, 11-CELL LOUVER AND CURVED SMOOTH FROSTED LENS
Light Source: (224) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4936.8 lumens
Efficiency: N/A
Efficacy: 120.7 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

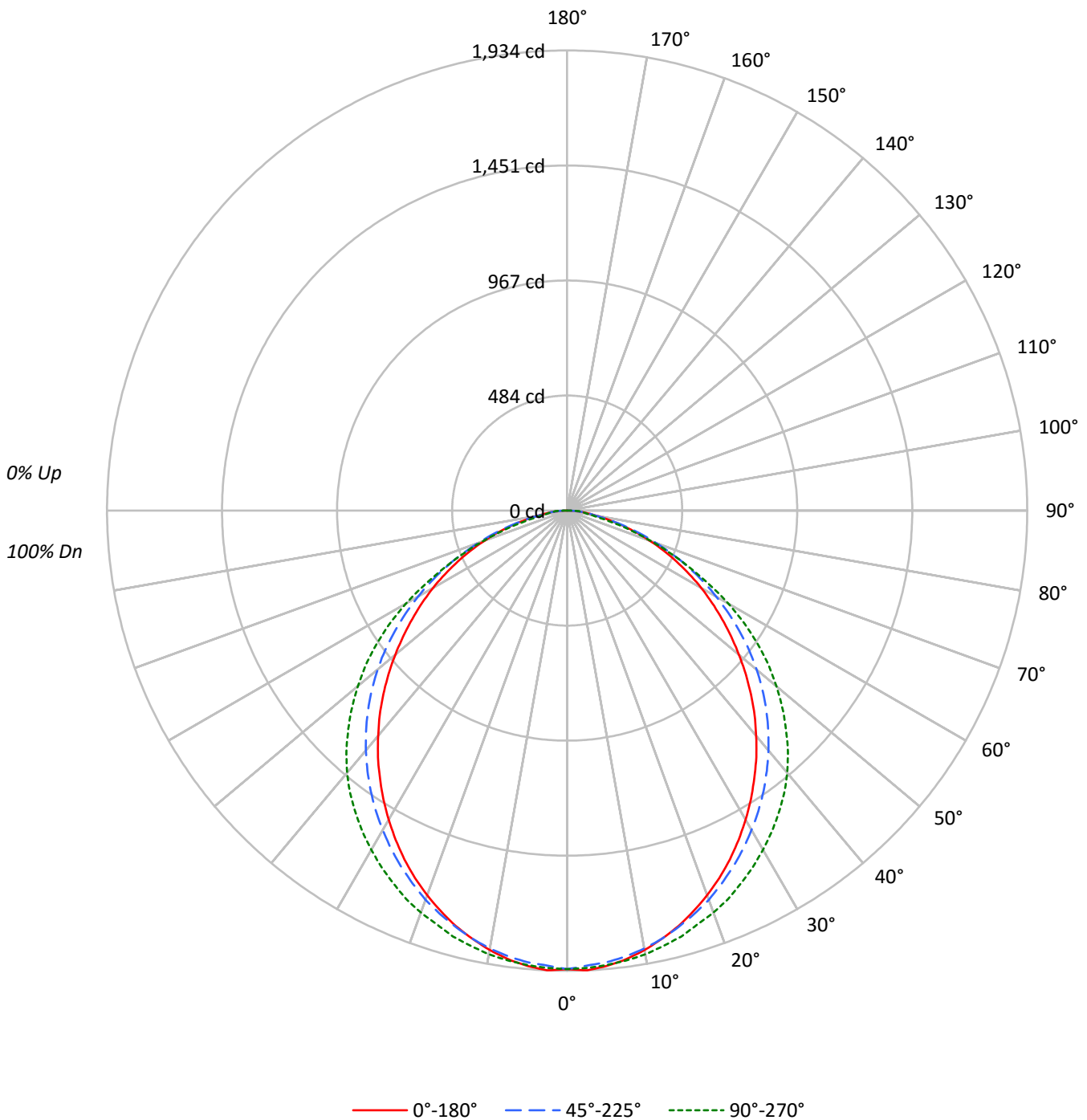
Input Watts (W): 40.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10147	10147	10147
5°	10150	10070	10133
10°	10025	9989	10124
15°	9854	9872	10101
20°	9638	9751	10072
25°	9397	9592	10042
30°	9117	9424	10008
35°	8817	9250	9964
40°	8491	9047	9891
45°	8134	8811	9688
50°	7721	8520	9402
55°	7293	8112	8976
60°	6859	7622	8242
65°	6311	7004	7109
70°	5674	6114	5830
75°	4862	5033	4211
80°	3778	3726	2859
85°	3256	3353	3763



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.6	3.7
10°-20°	514.1	10.4
20°-30°	766.6	15.5
30°-40°	907.1	18.4
40°-50°	916.7	18.6
50°-60°	789.4	16.0
60°-70°	544.5	11.0
70°-80°	253.5	5.1
80°-90°	63.2	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°	1462.4	29.6
0°-40°	2369.5	48.0
0°-60°	4075.6	82.6
0°-90°	4936.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4936.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1927	1927	1927	1927	1927	
5°	1920	1914	1905	1920	1917	182
15°	1808	1806	1811	1845	1853	509
25°	1618	1626	1651	1708	1729	744
35°	1372	1390	1439	1512	1550	858
45°	1092	1121	1183	1259	1301	842
55°	794	826	884	939	978	711
65°	507	530	562	567	571	503
75°	239	251	247	220	207	255
85°	54	56	56	61	62	62
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1927.3	1927.3	1927.3	1927.3	1927.3
2.5°	1934.0	1925.6	1913.8	1927.3	1923.9
5°	1920.5	1913.8	1905.4	1920.5	1917.2
7.5°	1902.0	1895.3	1890.2	1908.8	1907.1
10°	1875.1	1871.7	1868.4	1891.9	1893.6
12.5°	1843.1	1841.4	1843.1	1870.0	1873.4
15°	1807.8	1806.1	1811.1	1844.8	1853.2
17.5°	1765.7	1767.4	1777.5	1814.5	1822.9
20°	1720.2	1723.6	1740.4	1784.2	1797.7
22.5°	1671.4	1676.5	1696.7	1747.2	1767.4
25°	1617.6	1626.0	1651.2	1708.5	1728.7
27.5°	1560.3	1570.4	1602.4	1663.0	1689.9
30°	1499.7	1513.2	1550.2	1615.9	1646.2
32.5°	1437.5	1452.6	1496.4	1565.4	1600.7
35°	1371.8	1390.3	1439.1	1511.5	1550.2
37.5°	1306.2	1326.4	1378.5	1456.0	1498.1
40°	1235.5	1257.4	1316.3	1395.4	1439.1
42.5°	1166.5	1190.0	1250.6	1331.4	1373.5
45°	1092.4	1121.0	1183.3	1259.0	1301.1
47.5°	1018.3	1047.0	1112.6	1181.6	1227.1
50°	942.6	974.6	1040.2	1104.2	1147.9
52.5°	868.5	903.9	964.5	1023.4	1067.2
55°	794.5	826.5	883.7	939.2	977.9
57.5°	722.1	752.4	804.6	851.7	883.7
60°	651.4	678.3	723.8	759.1	782.7
62.5°	579.0	606.0	643.0	663.2	675.0
65°	506.6	530.2	562.2	567.2	570.6
67.5°	437.6	459.5	479.7	471.3	473.0
70°	368.6	387.1	397.2	380.4	378.7
72.5°	303.0	316.4	321.5	297.9	289.5
75°	239.0	250.8	247.4	220.5	207.0
77.5°	178.4	188.5	180.1	151.5	134.7
80°	124.6	129.6	122.9	99.3	94.3
82.5°	87.5	87.5	82.5	80.8	79.1
85°	53.9	55.5	55.5	60.6	62.3
87.5°	23.6	26.9	30.3	42.1	45.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)