

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: P189010

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P189010
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-50L830-1D-UNV-STD-W-4
Description: RZL LINEAR LED FIXTURE
WITH SOLID ALUMINUM SIDES, FROSTED LINEAR PRISMATIC LENS AND INLAY
Light Source: (224) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5044.2 lumens
Efficiency: N/A
Efficacy: 123.3 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.34
Luminous Opening: Rectangular (W 0.53' x L: 3.83' x H: 0')
CIE Type: Direct

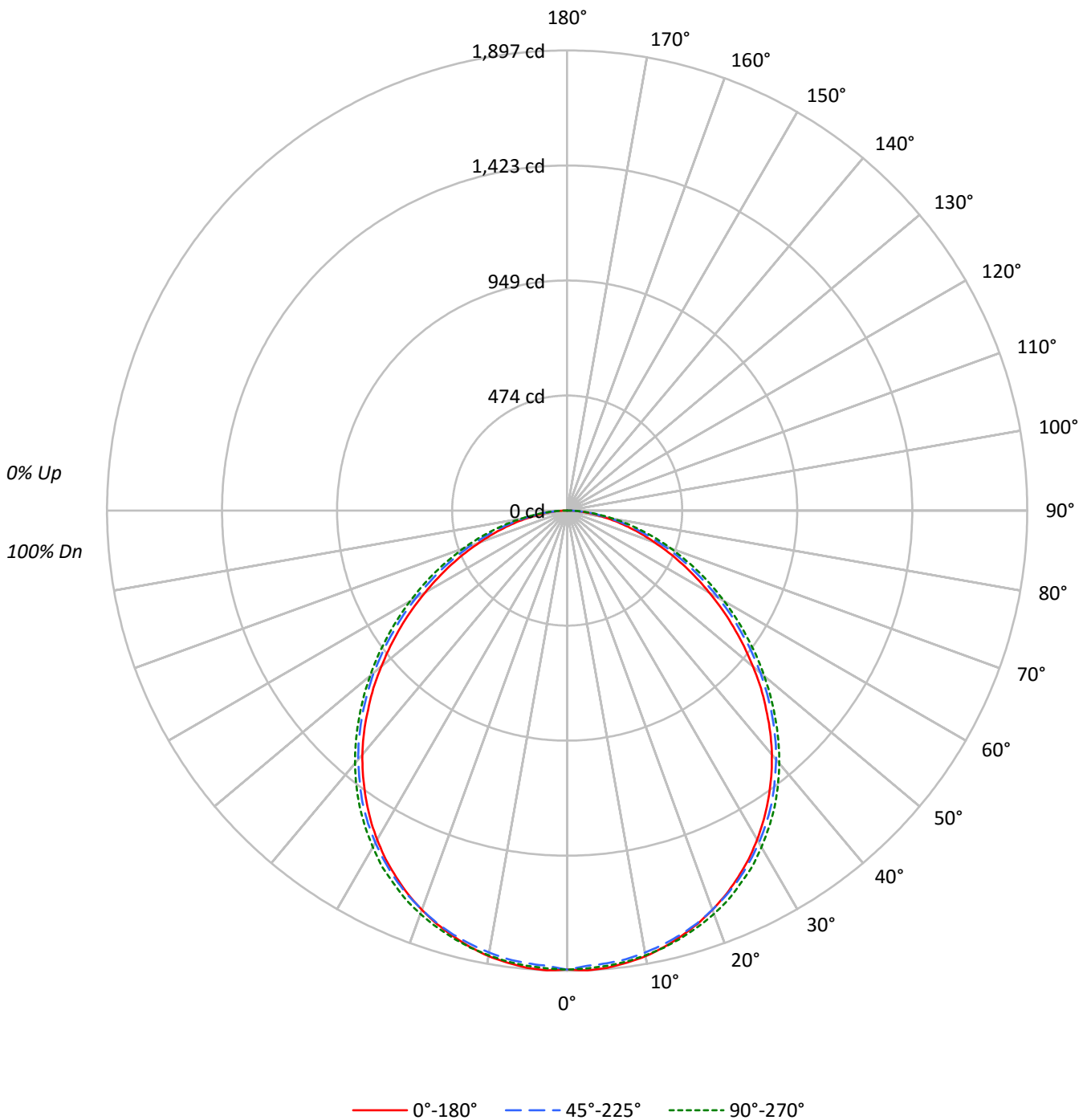
Input Watts (W): 40.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9962	9962	9962
5°	10000	9903	9956
10°	9972	9892	9954
15°	9902	9865	9939
20°	9812	9812	9915
25°	9686	9735	9842
30°	9525	9616	9739
35°	9304	9455	9584
40°	9027	9212	9350
45°	8643	8892	9043
50°	8188	8518	8683
55°	7683	8053	8284
60°	7118	7577	7877
65°	6540	7064	7460
70°	5913	6507	6998
75°	5289	5938	6483
80°	4578	5339	5900
85°	3848	4664	5068



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.0	3.5
10°-20°	512.9	10.2
20°-30°	774.3	15.4
30°-40°	919.0	18.2
40°-50°	919.4	18.2
50°-60°	783.5	15.5
60°-70°	560.0	11.1
70°-80°	309.2	6.1
80°-90°	86.9	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°	1466.2	29.1
0°-40°	2385.2	47.3
0°-60°	4088.1	81.0
0°-90°	5044.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5044.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1892	1892	1892	1892	1892	
5°	1892	1885	1874	1887	1884	180
15°	1817	1815	1810	1827	1823	512
25°	1667	1671	1676	1698	1694	768
35°	1448	1456	1471	1488	1491	905
45°	1161	1176	1194	1214	1214	895
55°	837	852	877	901	902	749
65°	525	537	567	594	599	521
75°	260	267	292	314	319	277
85°	64	67	77	84	84	75
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1892.1	1892.1	1892.1	1892.1	1892.1
2.5°	1897.2	1890.5	1878.7	1890.5	1888.8
5°	1892.1	1885.4	1873.7	1887.1	1883.8
7.5°	1880.4	1873.7	1865.3	1877.0	1875.4
10°	1865.3	1858.6	1850.2	1865.3	1861.9
12.5°	1843.5	1840.1	1831.8	1848.5	1845.2
15°	1816.7	1815.0	1809.9	1826.7	1823.4
17.5°	1786.5	1784.8	1783.1	1801.6	1798.2
20°	1751.2	1751.2	1751.2	1769.7	1769.7
22.5°	1712.7	1712.7	1716.0	1736.1	1736.1
25°	1667.4	1670.7	1675.8	1697.6	1694.2
27.5°	1620.4	1623.8	1630.5	1653.9	1653.9
30°	1566.7	1571.8	1581.8	1601.9	1601.9
32.5°	1509.7	1516.4	1528.1	1548.3	1548.3
35°	1447.6	1456.0	1471.1	1487.9	1491.2
37.5°	1382.2	1388.9	1405.7	1427.5	1427.5
40°	1313.4	1323.5	1340.3	1360.4	1360.4
42.5°	1239.6	1249.7	1269.8	1288.3	1289.9
45°	1160.8	1175.9	1194.3	1214.5	1214.5
47.5°	1083.6	1097.0	1118.8	1135.6	1139.0
50°	999.7	1018.2	1040.0	1058.5	1060.1
52.5°	919.2	936.0	959.5	981.3	983.0
55°	837.0	852.1	877.3	900.8	902.5
57.5°	758.2	773.3	800.1	823.6	825.3
60°	676.0	689.4	719.6	743.1	748.1
62.5°	600.5	613.9	640.8	669.3	672.7
65°	525.0	536.8	567.0	593.8	598.8
67.5°	452.9	463.0	493.2	518.3	523.4
70°	384.1	394.2	422.7	447.9	454.6
72.5°	320.4	328.8	355.6	379.1	385.8
75°	260.0	266.7	291.9	313.7	318.7
77.5°	203.0	209.7	231.5	251.6	255.0
80°	151.0	156.0	176.1	191.2	194.6
82.5°	105.7	110.7	124.1	135.9	137.5
85°	63.7	67.1	77.2	83.9	83.9
87.5°	30.2	30.2	35.2	36.9	35.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)