

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: P219985

Luminaire Tested: **R3-WD-4L40-LD5-UNV-14**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P219985
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35871)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: R3-WD-4L40-LD5-UNV-14
Description: CLASS R3 1X4 RECESSED LED LUMIANIRE
WITH A CLEAR SMOOTH ROUND LENS & ROUND PERF INLAY
Light Source: (168) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4853.0 lumens
Efficiency: N/A
Efficacy: 112.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.24 / 1.33
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

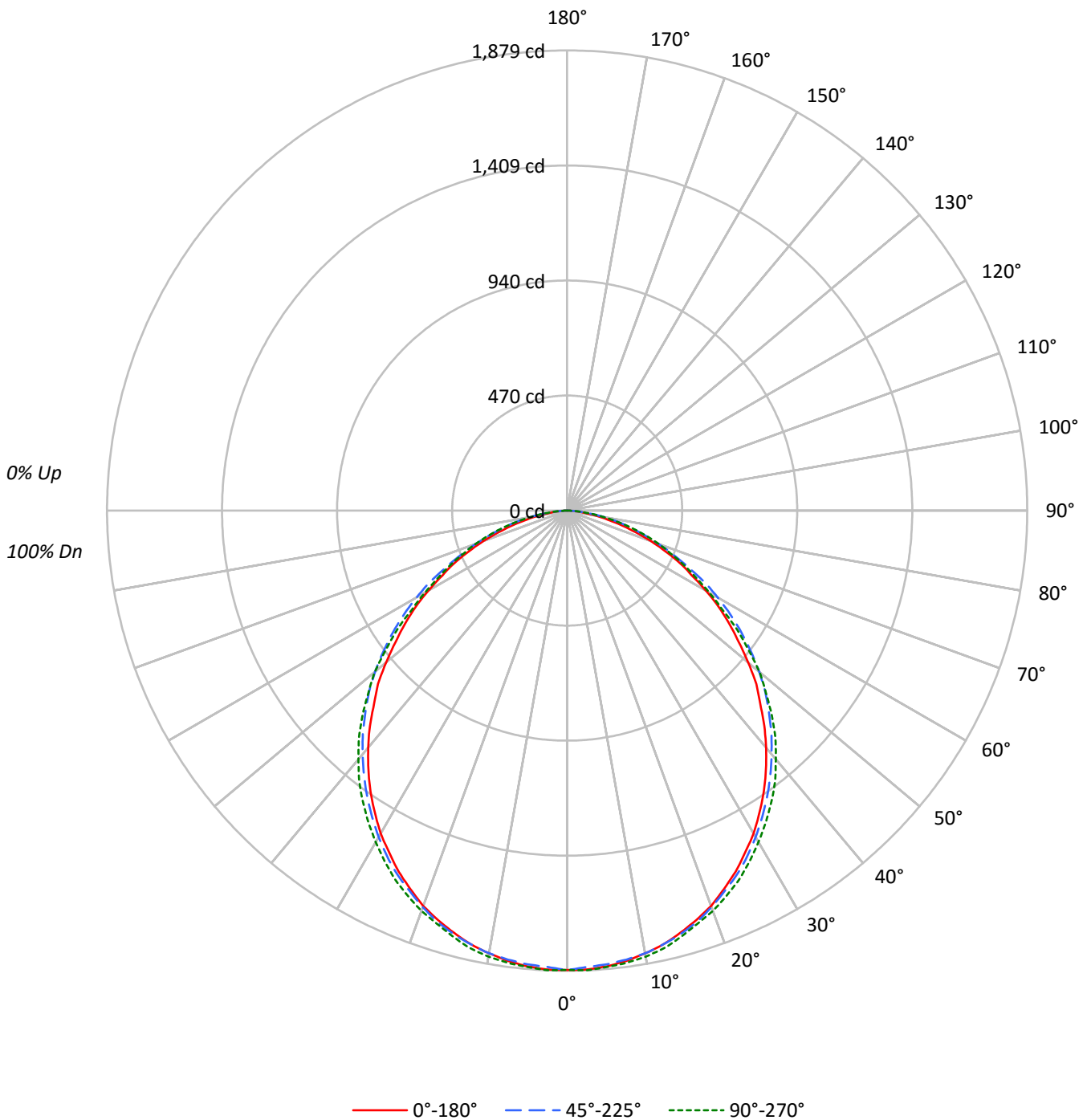
Input Watts (W): 43.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	95	98	95	92		94	92	90		91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77		83	79	75		80	77	74	72
3	91	81	73	67	89	79	72	66	77	70	65		74	68	64		71	67	63	61
4	84	72	64	57	81	71	63	57	68	61	56		66	60	55		64	59	54	52
5	77	65	56	49	75	63	55	49	61	54	49		59	53	48		58	52	47	45
6	71	58	49	43	69	57	49	43	56	48	43		54	47	42		52	46	42	40
7	66	53	44	38	64	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	30		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°	5048	5048	5048
5°	5046	5024	5053
10°	5016	5016	5053
15°	4973	4988	5018
20°	4920	4936	4982
25°	4832	4872	4935
30°	4733	4783	4857
35°	4600	4679	4776
40°	4440	4562	4656
45°	4241	4434	4495
50°	4039	4285	4296
55°	3799	4075	3974
60°	3524	3825	3610
65°	3250	3454	3352
70°	2859	3112	3133
75°	2361	2806	2834
80°	1822	2360	2318
85°	1238	1649	1568



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.4	3.7
10°-20°	505.9	10.4
20°-30°	757.0	15.6
30°-40°	891.9	18.4
40°-50°	892.5	18.4
50°-60°	757.9	15.6
60°-70°	529.0	10.9
70°-80°	278.6	5.7
80°-90°	62.8	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°	1440.3	29.7
0°-40°	2332.2	48.1
0°-60°	3982.6	82.1
0°-90°	4853.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4853.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1876	1876	1876	1876	1876	
5°	1868	1868	1860	1871	1871	177
15°	1785	1790	1790	1801	1801	504
25°	1627	1635	1641	1662	1662	749
35°	1400	1408	1424	1448	1454	875
45°	1114	1133	1165	1184	1181	862
55°	810	839	868	863	847	724
65°	510	537	542	532	526	501
75°	227	256	270	273	273	244
85°	40	51	53	51	51	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1875.9	1875.9	1875.9	1875.9	1875.9
2.5°	1875.9	1873.2	1865.2	1875.9	1878.6
5°	1867.9	1867.9	1859.9	1870.6	1870.6
7.5°	1854.5	1857.2	1849.2	1862.5	1862.5
10°	1835.8	1838.5	1835.8	1849.2	1849.2
12.5°	1814.4	1817.1	1814.4	1827.8	1830.5
15°	1785.0	1790.4	1790.4	1801.1	1801.1
17.5°	1753.0	1758.3	1761.0	1769.0	1769.0
20°	1718.2	1723.6	1723.6	1736.9	1739.6
22.5°	1672.8	1680.8	1680.8	1702.2	1702.2
25°	1627.4	1635.4	1640.7	1662.1	1662.1
27.5°	1573.9	1582.0	1592.6	1614.0	1614.0
30°	1523.2	1525.8	1539.2	1555.2	1563.2
32.5°	1461.7	1469.7	1483.1	1507.1	1509.8
35°	1400.2	1408.3	1424.3	1448.3	1453.7
37.5°	1333.4	1341.5	1362.8	1392.2	1394.9
40°	1264.0	1272.0	1298.7	1328.1	1325.4
42.5°	1191.8	1202.5	1234.6	1255.9	1258.6
45°	1114.3	1133.0	1165.1	1183.8	1181.1
47.5°	1047.5	1060.9	1098.3	1106.3	1101.0
50°	964.7	988.7	1023.5	1028.8	1026.1
52.5°	884.5	908.6	946.0	946.0	932.6
55°	809.7	839.1	868.5	863.1	847.1
57.5°	734.9	758.9	791.0	774.9	750.9
60°	654.7	684.1	710.8	684.1	670.7
62.5°	574.5	614.6	630.6	601.2	593.2
65°	510.4	537.1	542.5	531.8	526.4
67.5°	432.9	467.6	467.6	462.3	456.9
70°	363.4	392.8	395.5	398.2	398.2
72.5°	291.3	326.0	328.7	336.7	334.0
75°	227.1	256.5	269.9	272.6	272.6
77.5°	168.3	192.4	211.1	211.1	208.4
80°	117.6	139.0	152.3	152.3	149.6
82.5°	72.1	90.9	101.5	98.9	98.9
85°	40.1	50.8	53.4	50.8	50.8
87.5°	16.0	18.7	16.0	10.7	10.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)