

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: P219981

Luminaire Tested: **R3-WD-5L35-LD5-UNV-14**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P219981
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-5L35-LD5-UNV-14
Description: CLASS R3 1X4 RECESSED LED LUMIANIRE
WITH A CLEAR SMOOTH ROUND LENS & ROUND PERF INLAY
Light Source: (168) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5455.9 lumens
Efficiency: N/A
Efficacy: 101.0 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

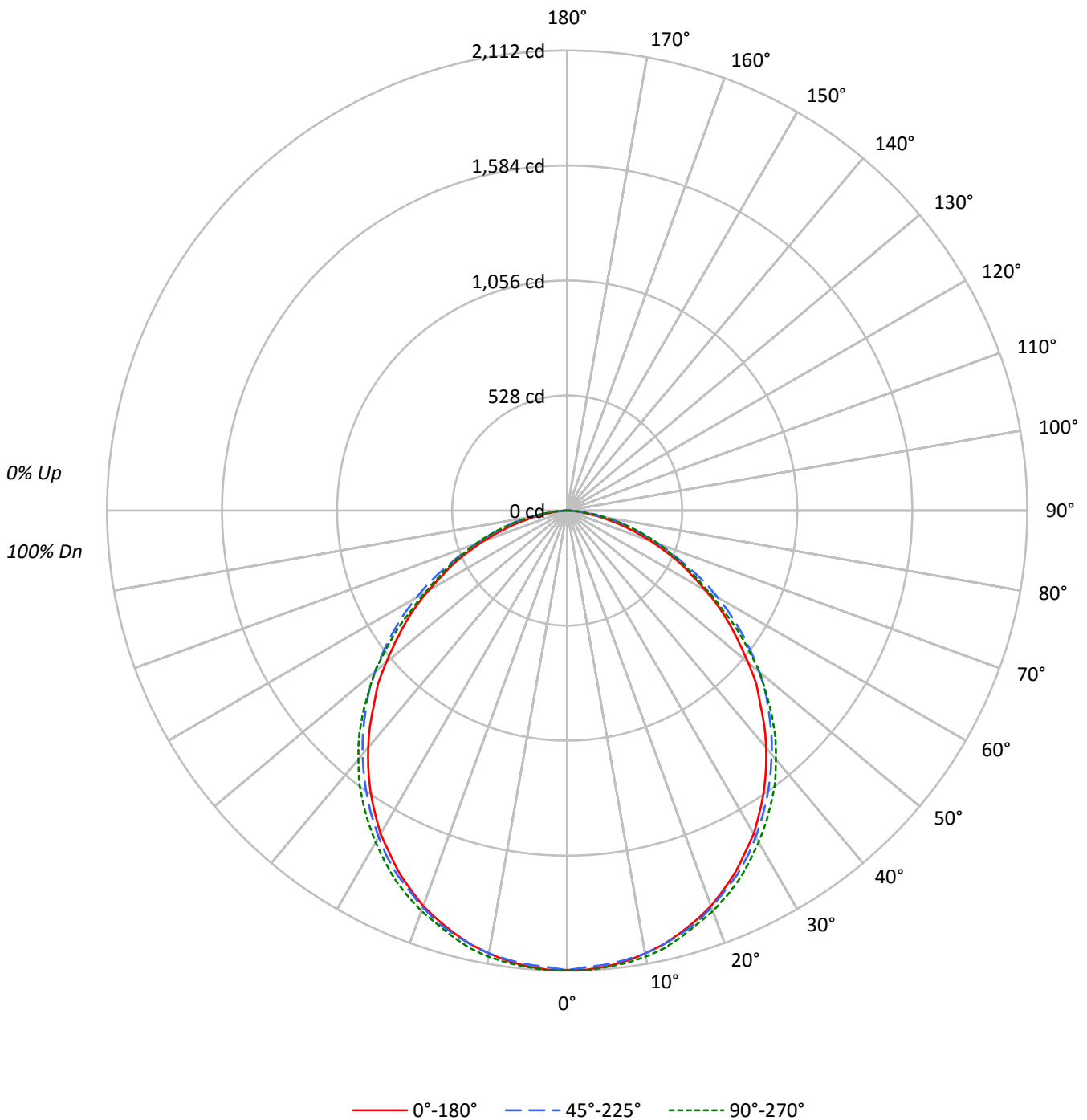
Input Watts (W): 54
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	5675	5675	5675
5°	5672	5648	5680
10°	5640	5640	5681
15°	5591	5607	5641
20°	5532	5549	5600
25°	5432	5477	5548
30°	5321	5377	5461
35°	5171	5260	5369
40°	4992	5129	5234
45°	4767	4985	5053
50°	4540	4817	4829
55°	4271	4581	4468
60°	3961	4301	4059
65°	3654	3883	3768
70°	3215	3498	3522
75°	2655	3154	3186
80°	2049	2653	2607
85°	1392	1856	1763



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.5	3.7
10°-20°	568.7	10.4
20°-30°	851.1	15.6
30°-40°	1002.7	18.4
40°-50°	1003.4	18.4
50°-60°	852.0	15.6
60°-70°	594.7	10.9
70°-80°	313.2	5.7
80°-90°	70.7	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°	1619.2	29.7
0°-40°	2621.9	48.1
0°-60°	4477.3	82.1
0°-90°	5455.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5455.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2109	2109	2109	2109	2109	
5°	2100	2100	2091	2103	2103	199
15°	2007	2013	2013	2025	2025	566
25°	1830	1839	1845	1869	1869	842
35°	1574	1583	1601	1628	1634	983
45°	1253	1274	1310	1331	1328	969
55°	910	943	976	970	952	814
65°	574	604	610	598	592	563
75°	255	288	303	306	306	275
85°	45	57	60	57	57	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2108.9	2108.9	2108.9	2108.9	2108.9
2.5°	2108.9	2105.9	2096.9	2108.9	2111.9
5°	2099.9	2099.9	2090.9	2102.9	2102.9
7.5°	2084.9	2087.9	2078.9	2093.9	2093.9
10°	2063.9	2066.9	2063.9	2078.9	2078.9
12.5°	2039.8	2042.8	2039.8	2054.9	2057.9
15°	2006.8	2012.8	2012.8	2024.8	2024.8
17.5°	1970.7	1976.8	1979.8	1988.8	1988.8
20°	1931.7	1937.7	1937.7	1952.7	1955.7
22.5°	1880.6	1889.6	1889.6	1913.7	1913.7
25°	1829.6	1838.6	1844.6	1868.6	1868.6
27.5°	1769.5	1778.5	1790.5	1814.5	1814.5
30°	1712.4	1715.4	1730.4	1748.4	1757.5
32.5°	1643.3	1652.3	1667.3	1694.4	1697.4
35°	1574.2	1583.2	1601.2	1628.3	1634.3
37.5°	1499.1	1508.1	1532.1	1565.2	1568.2
40°	1421.0	1430.0	1460.0	1493.1	1490.1
42.5°	1339.9	1351.9	1387.9	1412.0	1415.0
45°	1252.7	1273.8	1309.8	1330.9	1327.9
47.5°	1177.6	1192.7	1234.7	1243.7	1237.7
50°	1084.5	1111.5	1150.6	1156.6	1153.6
52.5°	994.4	1021.4	1063.5	1063.5	1048.5
55°	910.3	943.3	976.4	970.4	952.3
57.5°	826.2	853.2	889.2	871.2	844.2
60°	736.0	769.1	799.1	769.1	754.1
62.5°	645.9	691.0	709.0	675.9	666.9
65°	573.8	603.8	609.9	597.8	591.8
67.5°	486.7	525.7	525.7	519.7	513.7
70°	408.6	441.6	444.6	447.6	447.6
72.5°	327.5	366.5	369.5	378.5	375.5
75°	255.4	288.4	303.4	306.4	306.4
77.5°	189.3	216.3	237.3	237.3	234.3
80°	132.2	156.2	171.2	171.2	168.2
82.5°	81.1	102.1	114.2	111.2	111.2
85°	45.1	57.1	60.1	57.1	57.1
87.5°	18.0	21.0	18.0	12.0	12.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)