

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: P219986

Luminaire Tested: **R3-WD-5L40-LD5-UNV-14**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P219986
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-5L40-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: 5765.2 lumens
Efficiency: N/A
Efficacy: 106.8 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

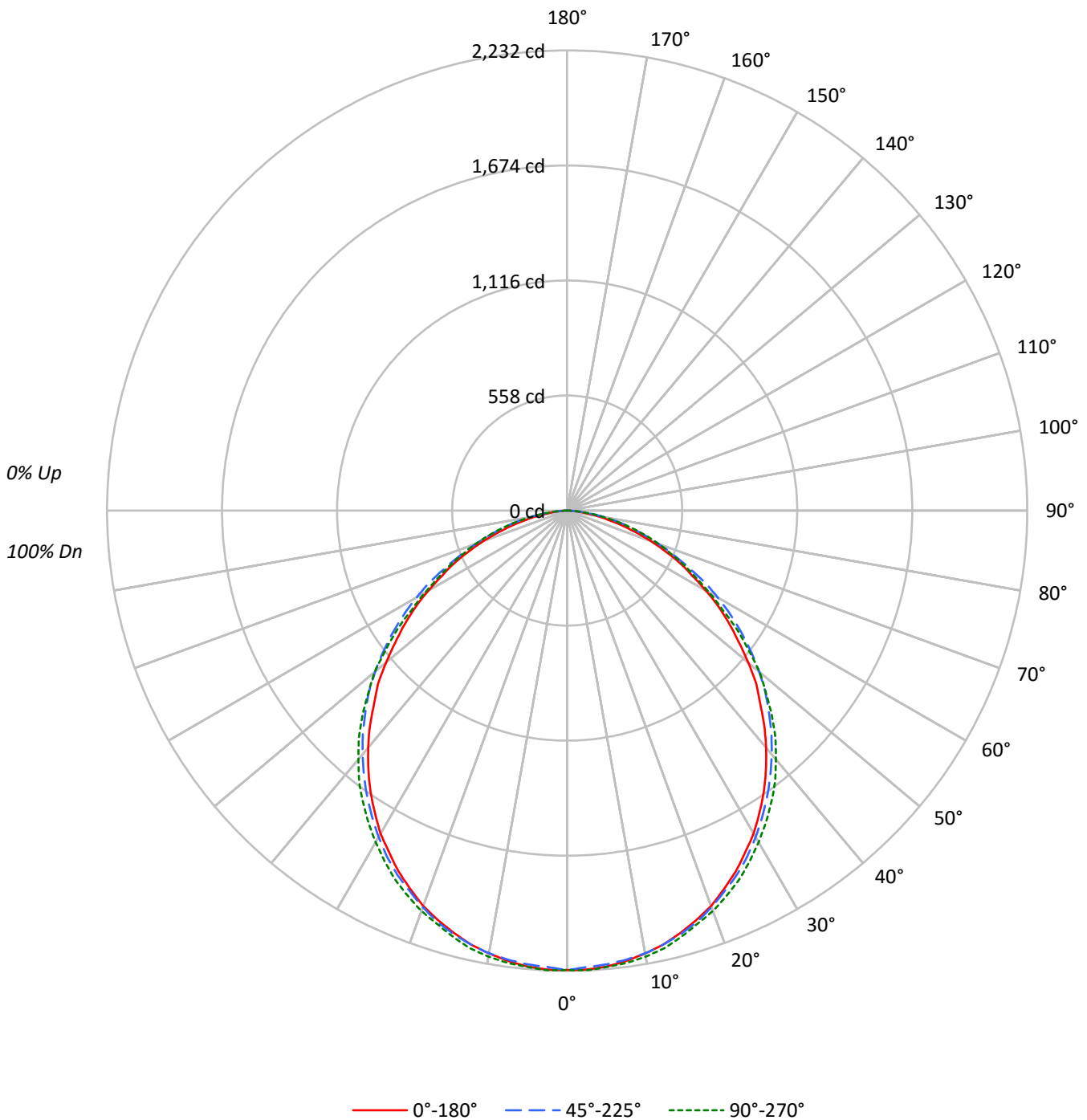
Input Watts (W): 54
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	5997	5997	5997
5°	5994	5968	6002
10°	5959	5959	6002
15°	5908	5925	5961
20°	5845	5863	5918
25°	5740	5787	5863
30°	5622	5682	5771
35°	5464	5558	5673
40°	5275	5420	5531
45°	5038	5267	5340
50°	4798	5090	5103
55°	4513	4840	4721
60°	4186	4545	4288
65°	3861	4103	3982
70°	3397	3696	3722
75°	2805	3333	3367
80°	2165	2803	2755
85°	1470	1961	1862



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	210.8	3.7
10°-20°	600.9	10.4
20°-30°	899.3	15.6
30°-40°	1059.6	18.4
40°-50°	1060.3	18.4
50°-60°	900.3	15.6
60°-70°	628.4	10.9
70°-80°	331.0	5.7
80°-90°	74.7	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°	1711.0	29.7
0°-40°	2770.6	48.1
0°-60°	4731.1	82.1
0°-90°	5765.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5765.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2228	2228	2228	2228	2228	
5°	2219	2219	2209	2222	2222	211
15°	2120	2127	2127	2140	2140	598
25°	1933	1943	1949	1974	1974	890
35°	1663	1673	1692	1721	1727	1039
45°	1324	1346	1384	1406	1403	1024
55°	962	997	1032	1025	1006	860
65°	606	638	644	632	625	595
75°	270	305	321	324	324	290
85°	48	60	64	60	60	60
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2228.5	2228.5	2228.5	2228.5	2228.5
2.5°	2228.5	2225.3	2215.8	2228.5	2231.6
5°	2219.0	2219.0	2209.4	2222.1	2222.1
7.5°	2203.1	2206.3	2196.7	2212.6	2212.6
10°	2180.9	2184.0	2180.9	2196.7	2196.7
12.5°	2155.5	2158.6	2155.5	2171.3	2174.5
15°	2120.5	2126.9	2126.9	2139.6	2139.6
17.5°	2082.4	2088.8	2092.0	2101.5	2101.5
20°	2041.2	2047.5	2047.5	2063.4	2066.6
22.5°	1987.2	1996.7	1996.7	2022.1	2022.1
25°	1933.2	1942.8	1949.1	1974.5	1974.5
27.5°	1869.8	1879.3	1892.0	1917.4	1917.4
30°	1809.4	1812.6	1828.5	1847.5	1857.1
32.5°	1736.4	1746.0	1761.8	1790.4	1793.6
35°	1663.4	1672.9	1692.0	1720.6	1726.9
37.5°	1584.1	1593.6	1619.0	1653.9	1657.1
40°	1501.5	1511.0	1542.8	1577.7	1574.5
42.5°	1415.8	1428.5	1466.6	1492.0	1495.2
45°	1323.8	1346.0	1384.1	1406.3	1403.1
47.5°	1244.4	1260.3	1304.7	1314.2	1307.9
50°	1146.0	1174.6	1215.8	1222.2	1219.0
52.5°	1050.7	1079.3	1123.8	1123.8	1107.9
55°	961.9	996.8	1031.7	1025.4	1006.3
57.5°	873.0	901.5	939.6	920.6	892.0
60°	777.7	812.7	844.4	812.7	796.8
62.5°	682.5	730.1	749.2	714.3	704.7
65°	606.3	638.1	644.4	631.7	625.4
67.5°	514.3	555.5	555.5	549.2	542.8
70°	431.7	466.6	469.8	473.0	473.0
72.5°	346.0	387.3	390.5	400.0	396.8
75°	269.8	304.7	320.6	323.8	323.8
77.5°	200.0	228.6	250.8	250.8	247.6
80°	139.7	165.1	180.9	180.9	177.8
82.5°	85.7	107.9	120.6	117.5	117.5
85°	47.6	60.3	63.5	60.3	60.3
87.5°	19.0	22.2	19.0	12.7	12.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)