

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: P220000

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P220000  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35872)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: R3-WN-5L40-LD5-UNV-14  
Description: CLASS R3 1X4 RECESSED LED LUMIANIRE  
WITH A CLEAR SMOOTH ROUND LENS & NANO-PRISM INLAY  
Light Source: (168) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6135.3 lumens  
Efficiency: N/A  
Efficacy: 113.6 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.24 / 1.34  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

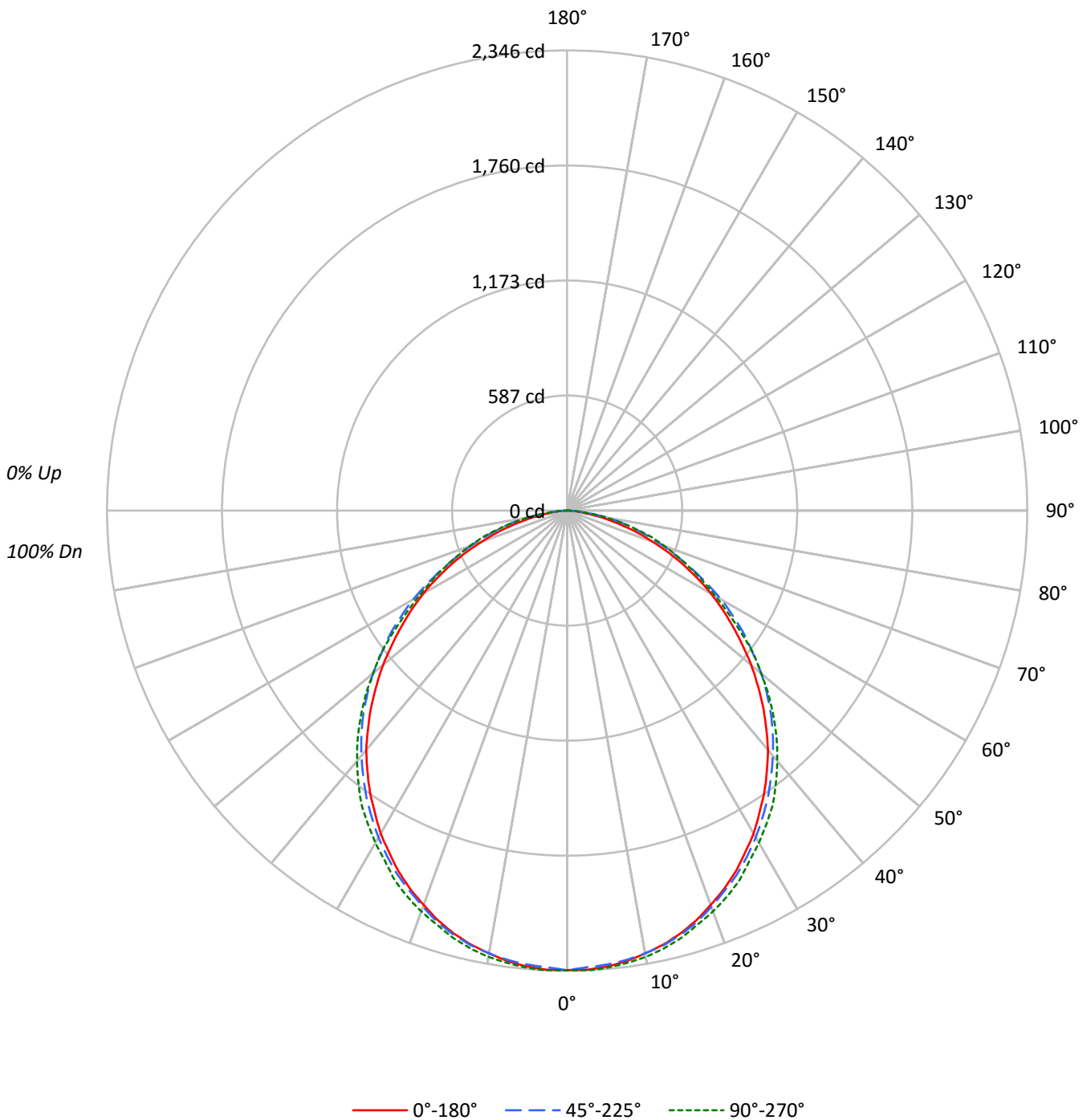
Input Watts (W): 54  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	102	99	95	98	95	92	94	92	89	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	76	73	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	60
4	84	72	63	57	81	70	62	56	68	61	55	66	60	55	64	58	54	52
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31
9	57	44	36	31	56	44	36	31	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	37	32	27	26

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	6304	6304	6304
5°	6303	6277	6320
10°	6263	6263	6315
15°	6217	6235	6279
20°	6127	6154	6227
25°	6032	6079	6174
30°	5908	5977	6076
35°	5756	5861	6007
40°	5598	5732	5854
45°	5376	5593	5666
50°	5130	5409	5409
55°	4840	5183	5079
60°	4562	4886	4698
65°	4164	4447	4406
70°	3622	4071	4146
75°	3004	3696	3729
80°	2214	3099	3099
85°	1470	2254	1961



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	221.6	3.6
10°-20°	632.0	10.3
20°-30°	945.1	15.4
30°-40°	1117.1	18.2
40°-50°	1125.0	18.3
50°-60°	964.4	15.7
60°-70°	683.8	11.1
70°-80°	364.7	5.9
80°-90°	81.6	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°	1798.7	29.3
0°-40°	2915.8	47.5
0°-60°	5005.2	81.6
0°-90°	6135.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6135.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2343	2343	2343	2343	2343	
5°	2333	2333	2324	2336	2340	221
15°	2232	2235	2238	2251	2254	629
25°	2032	2041	2048	2073	2079	935
35°	1752	1756	1784	1816	1828	1095
45°	1413	1428	1470	1492	1489	1088
55°	1032	1060	1105	1098	1082	924
65°	654	686	698	695	692	647
75°	289	327	356	368	359	312
85°	48	64	73	70	64	62
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2342.8	2342.8	2342.8	2342.8	2342.8
2.5°	2342.8	2339.6	2330.1	2345.9	2345.9
5°	2333.2	2333.2	2323.7	2336.4	2339.6
7.5°	2317.4	2317.4	2311.0	2326.9	2326.9
10°	2292.0	2295.1	2292.0	2307.8	2311.0
12.5°	2266.6	2269.7	2269.7	2282.4	2285.6
15°	2231.7	2234.8	2238.0	2250.7	2253.9
17.5°	2190.4	2196.7	2199.9	2212.6	2212.6
20°	2139.6	2149.1	2149.1	2171.3	2174.5
22.5°	2088.8	2095.2	2098.3	2123.7	2130.1
25°	2031.7	2041.2	2047.5	2072.9	2079.3
27.5°	1965.0	1974.5	1987.2	2015.8	2012.6
30°	1901.5	1904.7	1923.7	1952.3	1955.5
32.5°	1825.3	1834.8	1853.9	1885.6	1892.0
35°	1752.3	1755.5	1784.1	1815.8	1828.5
37.5°	1672.9	1682.5	1707.9	1742.8	1749.1
40°	1593.6	1599.9	1631.7	1669.8	1666.6
42.5°	1501.5	1514.2	1552.3	1580.9	1580.9
45°	1412.6	1428.5	1469.8	1492.0	1488.8
47.5°	1317.4	1339.6	1380.9	1399.9	1393.6
50°	1225.3	1247.6	1292.0	1301.5	1292.0
52.5°	1126.9	1155.5	1193.6	1196.8	1196.8
55°	1031.7	1060.3	1104.7	1098.4	1082.5
57.5°	939.6	968.2	1003.1	990.4	974.6
60°	847.6	873.0	907.9	882.5	873.0
62.5°	749.2	784.1	800.0	787.3	780.9
65°	653.9	685.7	698.4	695.2	692.0
67.5°	558.7	596.8	603.1	606.3	606.3
70°	460.3	504.7	517.4	527.0	527.0
72.5°	377.8	415.9	431.7	447.6	450.8
75°	288.9	327.0	355.5	368.2	358.7
77.5°	215.9	244.4	282.5	279.4	279.4
80°	142.9	174.6	200.0	206.3	200.0
82.5°	88.9	117.5	130.2	130.2	127.0
85°	47.6	63.5	73.0	69.8	63.5
87.5°	19.0	22.2	22.2	15.9	12.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)