

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: P219958

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P219958  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35869)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: R3-WL-5L40-LD5-UNV-14  
Description: CLASS R3 1X4 RECESSED LED LUMIANIRE  
WITH A FROSTED PRISMATIC ROUND LENS  
Light Source: (168) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6373.2 lumens  
Efficiency: N/A  
Efficacy: 118.0 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.25 / 1.33  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

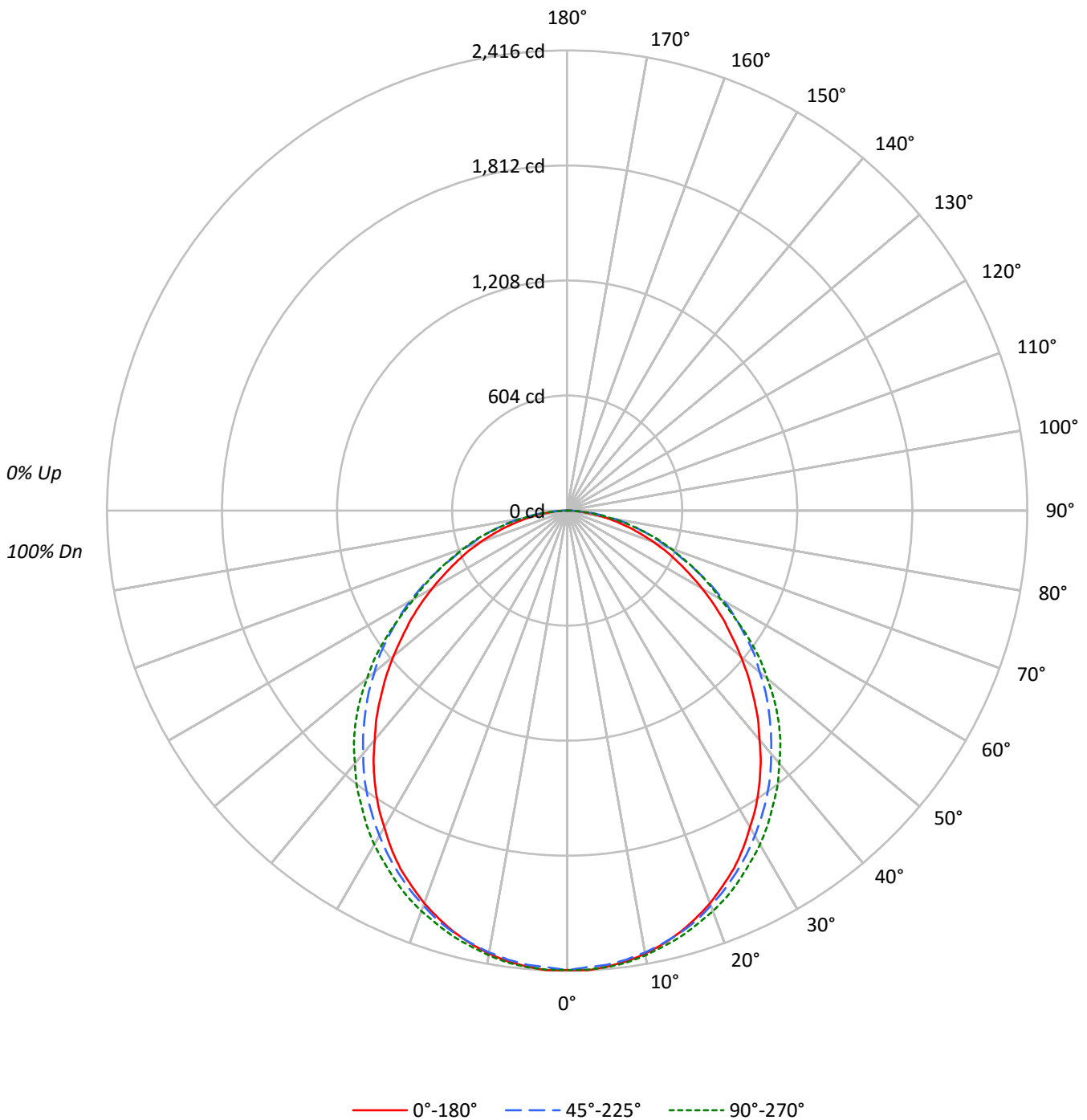
Input Watts (W): 54  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	81	76	82	78	74	79	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53	51
5	77	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	47	44
6	71	58	49	42	69	57	48	42	55	47	42	53	47	41	52	46	41	39
7	66	52	44	38	64	51	43	37	50	43	37	48	42	37	47	41	37	35
8	61	48	39	34	60	47	39	33	46	38	33	45	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25

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

	0°	45°	90°
0°	6492	6492	6492
5°	6491	6466	6500
10°	6454	6436	6480
15°	6385	6394	6447
20°	6282	6318	6409
25°	6155	6230	6353
30°	5968	6125	6293
35°	5777	6007	6194
40°	5520	5854	6089
45°	5267	5702	5980
50°	4984	5529	5741
55°	4706	5347	5436
60°	4408	5125	5006
65°	4103	4770	4790
70°	3796	4446	4521
75°	3432	4224	4224
80°	3000	3936	3690
85°	2547	3236	2844



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	228.0	3.6
10°-20°	649.0	10.2
20°-30°	969.4	15.2
30°-40°	1142.1	17.9
40°-50°	1147.7	18.0
50°-60°	992.8	15.6
60°-70°	718.1	11.3
70°-80°	412.8	6.5
80°-90°	113.2	1.8
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°	1846.3	29.0
0°-40°	2988.5	46.9
0°-60°	5129.0	80.5
0°-90°	6373.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6373.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2413	2413	2413	2413	2413	
5°	2403	2403	2394	2406	2406	228
15°	2292	2295	2295	2314	2314	646
25°	2073	2079	2098	2133	2140	953
35°	1759	1781	1828	1876	1886	1098
45°	1384	1425	1498	1559	1571	1068
55°	1003	1051	1140	1175	1159	896
65°	644	689	749	752	752	640
75°	330	365	406	419	406	350
85°	82	98	105	98	92	95
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2412.6	2412.6	2412.6	2412.6	2412.6
2.5°	2415.8	2412.6	2399.9	2412.6	2412.6
5°	2403.1	2403.1	2393.6	2406.2	2406.2
7.5°	2387.2	2384.0	2377.7	2390.4	2393.6
10°	2361.8	2361.8	2355.5	2371.3	2371.3
12.5°	2330.1	2330.1	2326.9	2345.9	2342.8
15°	2292.0	2295.1	2295.1	2314.2	2314.2
17.5°	2244.4	2250.7	2257.0	2279.3	2276.1
20°	2193.6	2199.9	2206.3	2234.8	2238.0
22.5°	2133.2	2142.8	2155.5	2190.4	2193.6
25°	2072.9	2079.3	2098.3	2133.2	2139.6
27.5°	1999.9	2012.6	2038.0	2079.3	2082.5
30°	1920.6	1942.8	1971.3	2015.8	2025.3
32.5°	1844.4	1863.4	1901.5	1949.1	1958.6
35°	1758.7	1780.9	1828.5	1876.1	1885.6
37.5°	1669.8	1692.0	1752.3	1803.1	1815.8
40°	1571.4	1603.1	1666.6	1723.7	1733.3
42.5°	1482.5	1511.0	1584.1	1641.2	1657.1
45°	1384.1	1425.3	1498.3	1558.7	1571.4
47.5°	1288.8	1326.9	1412.6	1469.8	1476.1
50°	1190.4	1238.0	1320.6	1377.7	1371.4
52.5°	1092.0	1142.8	1238.0	1273.0	1273.0
55°	1003.1	1050.7	1139.6	1174.6	1158.7
57.5°	911.1	961.9	1047.6	1069.8	1038.1
60°	819.0	866.6	952.3	949.2	930.1
62.5°	727.0	777.7	853.9	847.6	841.2
65°	644.4	688.9	749.2	752.3	752.3
67.5°	565.1	609.5	650.8	666.6	657.1
70°	482.5	527.0	565.1	580.9	574.6
72.5°	403.2	450.8	482.5	501.6	495.2
75°	330.1	365.1	406.3	419.0	406.3
77.5°	257.1	292.1	330.1	336.5	323.8
80°	193.6	222.2	254.0	247.6	238.1
82.5°	136.5	158.7	177.8	168.2	161.9
85°	82.5	98.4	104.8	98.4	92.1
87.5°	34.9	41.3	41.3	34.9	34.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)