

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: P219999

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P219999  
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-4L40-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: 5164.6 lumens  
Efficiency: N/A  
Efficacy: 119.3 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

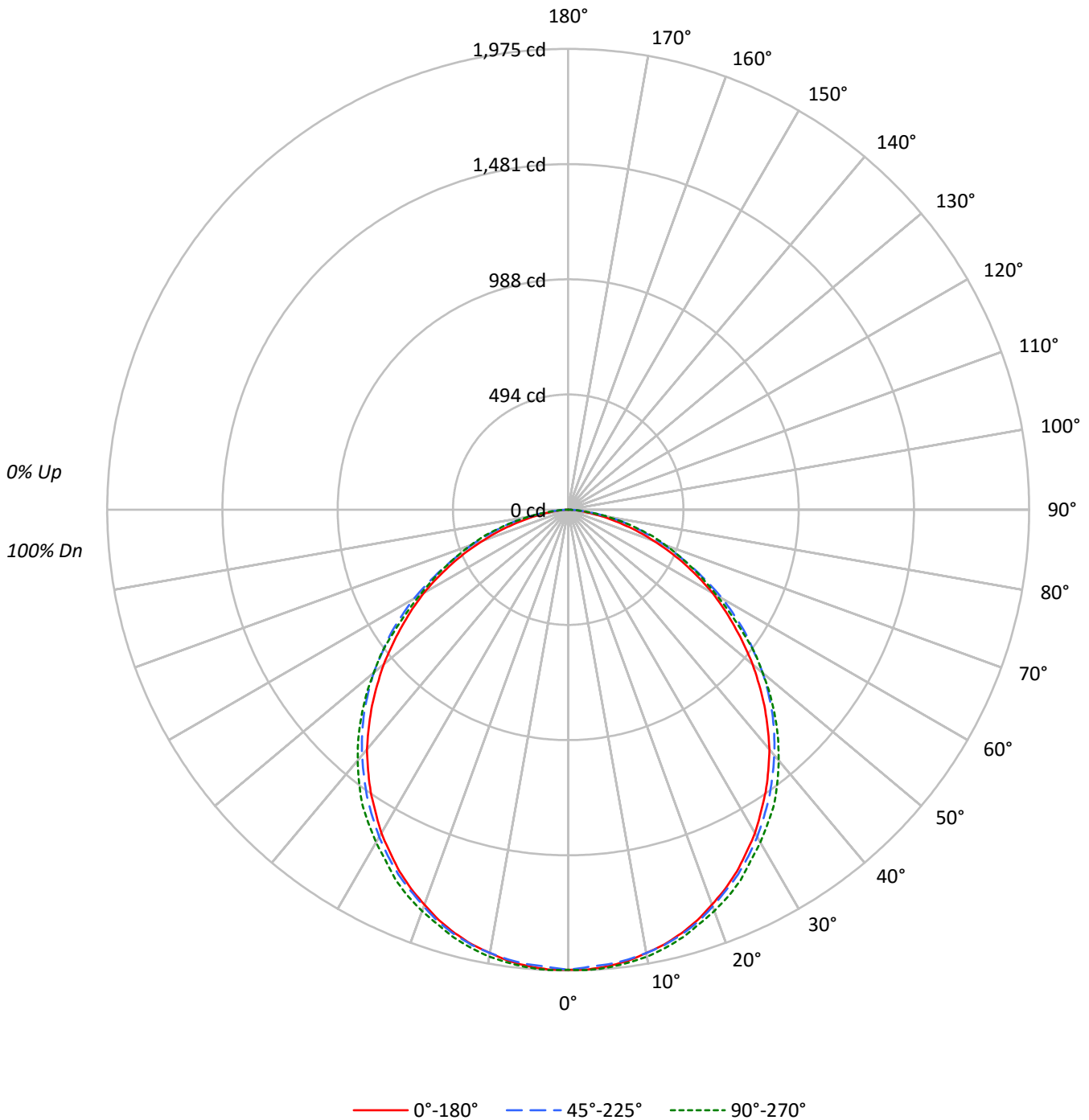
Input Watts (W): 43.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	5307	5307	5307
5°	5306	5284	5320
10°	5272	5272	5316
15°	5234	5248	5286
20°	5158	5181	5242
25°	5078	5118	5197
30°	4974	5032	5115
35°	4846	4934	5056
40°	4712	4825	4928
45°	4525	4708	4770
50°	4318	4553	4553
55°	4075	4363	4275
60°	3840	4113	3955
65°	3505	3743	3709
70°	3049	3427	3490
75°	2529	3112	3140
80°	1863	2608	2608
85°	1238	1899	1649



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	186.5	3.6
10°-20°	532.0	10.3
20°-30°	795.6	15.4
30°-40°	940.3	18.2
40°-50°	947.0	18.3
50°-60°	811.8	15.7
60°-70°	575.6	11.1
70°-80°	307.0	5.9
80°-90°	68.7	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°	1514.1	29.3
0°-40°	2454.4	47.5
0°-60°	4213.3	81.6
0°-90°	5164.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5164.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1972	1972	1972	1972	1972	
5°	1964	1964	1956	1967	1969	186
15°	1879	1881	1884	1895	1897	529
25°	1710	1718	1724	1745	1750	787
35°	1475	1478	1502	1528	1539	922
45°	1189	1202	1237	1256	1253	916
55°	868	892	930	925	911	778
65°	550	577	588	585	582	544
75°	243	275	299	310	302	263
85°	40	53	62	59	53	52
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1972.1	1972.1	1972.1	1972.1	1972.1
2.5°	1972.1	1969.4	1961.4	1974.8	1974.8
5°	1964.1	1964.1	1956.1	1966.8	1969.4
7.5°	1950.7	1950.7	1945.4	1958.7	1958.7
10°	1929.3	1932.0	1929.3	1942.7	1945.4
12.5°	1908.0	1910.6	1910.6	1921.3	1924.0
15°	1878.6	1881.2	1883.9	1894.6	1897.3
17.5°	1843.8	1849.2	1851.8	1862.5	1862.5
20°	1801.1	1809.1	1809.1	1827.8	1830.5
22.5°	1758.3	1763.7	1766.3	1787.7	1793.1
25°	1710.2	1718.2	1723.6	1745.0	1750.3
27.5°	1654.1	1662.1	1672.8	1696.9	1694.2
30°	1600.7	1603.3	1619.4	1643.4	1646.1
32.5°	1536.5	1544.5	1560.6	1587.3	1592.6
35°	1475.1	1477.7	1501.8	1528.5	1539.2
37.5°	1408.3	1416.3	1437.7	1467.0	1472.4
40°	1341.5	1346.8	1373.5	1405.6	1402.9
42.5°	1264.0	1274.6	1306.7	1330.8	1330.8
45°	1189.1	1202.5	1237.2	1255.9	1253.3
47.5°	1109.0	1127.7	1162.4	1178.4	1173.1
50°	1031.5	1050.2	1087.6	1095.6	1087.6
52.5°	948.6	972.7	1004.8	1007.4	1007.4
55°	868.5	892.5	929.9	924.6	911.2
57.5°	791.0	815.0	844.4	833.7	820.4
60°	713.5	734.9	764.3	742.9	734.9
62.5°	630.6	660.0	673.4	662.7	657.4
65°	550.5	577.2	587.9	585.2	582.5
67.5°	470.3	502.4	507.7	510.4	510.4
70°	387.5	424.9	435.6	443.6	443.6
72.5°	318.0	350.1	363.4	376.8	379.5
75°	243.2	275.2	299.3	310.0	302.0
77.5°	181.7	205.8	237.8	235.2	235.2
80°	120.2	147.0	168.3	173.7	168.3
82.5°	74.8	98.9	109.6	109.6	106.9
85°	40.1	53.4	61.5	58.8	53.4
87.5°	16.0	18.7	18.7	13.4	10.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)