

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: P219971

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P219971  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35870)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: R3-WG-4L40-LD5-UNV-14  
Description: CLASS R3 1X4 RECESSED LED LUMIANIRE  
WITH A CLEAR SMOOTH ROUND LENS & RECTANGULAR PERF INLAY  
Light Source: (168) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4885.3 lumens  
Efficiency: N/A  
Efficacy: 112.8 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.25 / 1.34  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

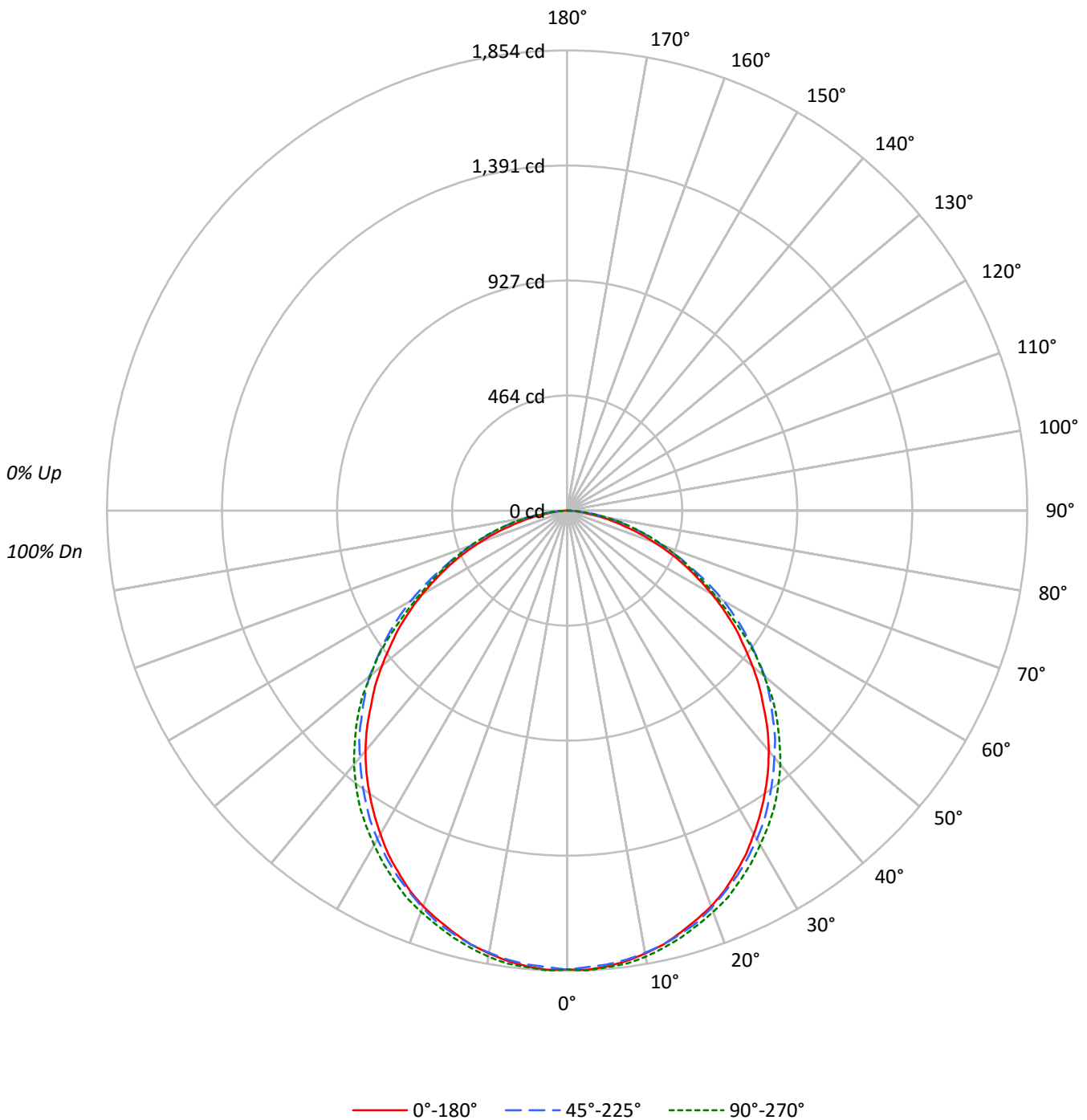
Input Watts (W): 43.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	79	97	90	84	79	86	81	77	83	79	75	80	76	73	71
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60
4	83	72	63	57	81	70	62	56	68	61	55	66	60	55	63	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	53	47	42	52	46	41	39
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	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	30	56	44	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	27	38	32	27	37	32	27	26

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

	0°	45°	90°
0°	4976	4976	4976
5°	4981	4959	4988
10°	4951	4943	4987
15°	4906	4921	4958
20°	4859	4875	4928
25°	4776	4816	4888
30°	4675	4749	4832
35°	4565	4661	4784
40°	4440	4562	4693
45°	4261	4454	4556
50°	4083	4352	4329
55°	3887	4150	4062
60°	3624	3912	3725
65°	3335	3556	3471
70°	2943	3216	3259
75°	2417	2917	2946
80°	1905	2484	2484
85°	1321	1815	1649



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	175.0	3.6
10°-20°	499.4	10.2
20°-30°	749.4	15.3
30°-40°	888.9	18.2
40°-50°	898.5	18.4
50°-60°	772.5	15.8
60°-70°	545.1	11.2
70°-80°	290.6	5.9
80°-90°	65.8	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°	1423.8	29.1
0°-40°	2312.8	47.3
0°-60°	3983.7	81.5
0°-90°	4885.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4885.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1849	1849	1849	1849	1849	
5°	1844	1841	1836	1846	1846	175
15°	1761	1766	1766	1780	1780	497
25°	1609	1614	1622	1646	1646	741
35°	1390	1400	1419	1448	1456	869
45°	1120	1138	1170	1192	1197	865
55°	828	852	884	882	866	738
65°	524	550	558	553	545	517
75°	232	264	281	291	283	253
85°	43	51	59	53	53	54
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1849.2	1849.2	1849.2	1849.2	1849.2
2.5°	1851.8	1849.2	1841.2	1851.8	1854.5
5°	1843.8	1841.2	1835.8	1846.5	1846.5
7.5°	1830.5	1830.5	1825.1	1838.5	1841.2
10°	1811.8	1811.8	1809.1	1822.4	1825.1
12.5°	1790.4	1793.1	1790.4	1803.7	1803.7
15°	1761.0	1766.3	1766.3	1779.7	1779.7
17.5°	1728.9	1734.3	1739.6	1750.3	1750.3
20°	1696.9	1696.9	1702.2	1718.2	1720.9
22.5°	1656.8	1659.4	1662.1	1683.5	1688.8
25°	1608.7	1614.0	1622.0	1646.1	1646.1
27.5°	1560.6	1568.6	1576.6	1600.7	1603.3
30°	1504.5	1512.5	1528.5	1549.9	1555.2
32.5°	1448.3	1456.4	1477.7	1499.1	1507.1
35°	1389.5	1400.2	1418.9	1448.3	1456.4
37.5°	1328.1	1336.1	1360.2	1392.2	1397.6
40°	1264.0	1272.0	1298.7	1328.1	1336.1
42.5°	1194.5	1205.2	1239.9	1266.6	1266.6
45°	1119.7	1138.4	1170.4	1191.8	1197.1
47.5°	1050.2	1063.5	1106.3	1125.0	1122.3
50°	975.4	994.1	1039.5	1044.8	1034.1
52.5°	897.9	921.9	959.3	964.7	956.7
55°	828.4	852.4	884.5	881.8	865.8
57.5°	750.9	777.6	807.0	791.0	774.9
60°	673.4	700.1	726.8	702.8	692.1
62.5°	595.9	625.3	644.0	620.0	617.3
65°	523.8	550.5	558.5	553.1	545.1
67.5°	448.9	478.3	483.7	481.0	478.3
70°	374.1	406.2	408.8	414.2	414.2
72.5°	302.0	334.0	344.7	352.7	347.4
75°	232.5	264.5	280.6	291.3	283.3
77.5°	176.4	200.4	221.8	221.8	221.8
80°	122.9	144.3	160.3	163.0	160.3
82.5°	77.5	93.5	106.9	101.5	101.5
85°	42.8	50.8	58.8	53.4	53.4
87.5°	16.0	18.7	16.0	13.4	10.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)