

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: P220199

Luminaire Tested: **R3-WL-3L35-LD5-UNV-24**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P220199  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35861)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: R3-WL-3L35-LD5-UNV-24  
Description: CLASS R3 2X4 RECESSED LED LUMIANIRE  
WITH A FROSTED PRISMATIC ROUND LENS  
Light Source: (168) 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5098.3 lumens  
Efficiency: N/A  
Efficacy: 126.2 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.33 / 1.41  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

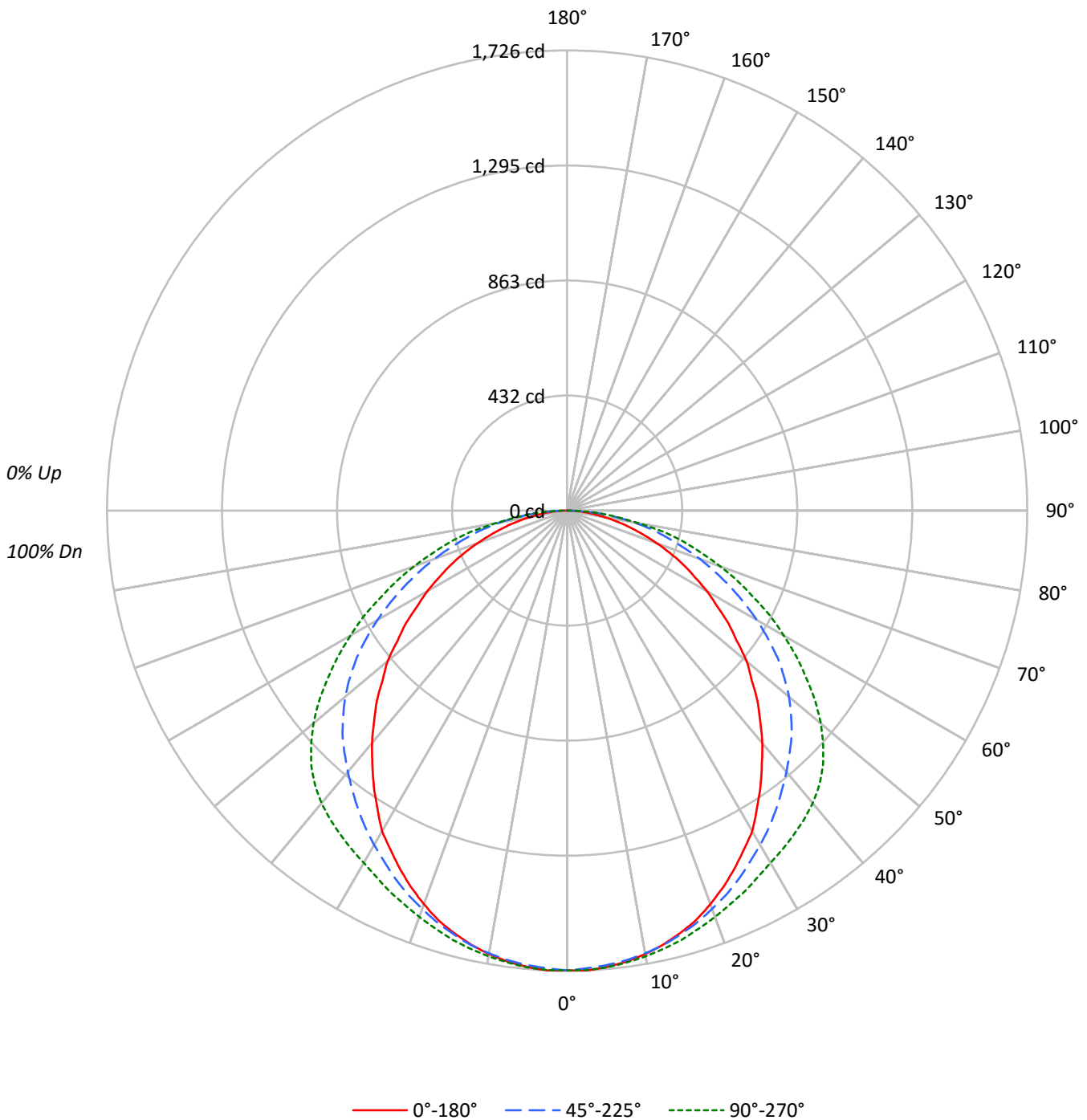
Input Watts (W): 40.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	108	103	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	69
3	89	79	70	63	87	77	69	63	74	67	62	71	65	61	69	64	60	57
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	39	51	44	39	50	43	39	37
7	64	50	41	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	38	31	25	37	30	25	36	30	25	35	29	25	23

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

	0°	45°	90°
0°	2321	2321	2321
5°	2320	2311	2323
10°	2308	2303	2319
15°	2285	2292	2320
20°	2250	2276	2322
25°	2202	2262	2340
30°	2158	2250	2370
35°	2076	2245	2437
40°	2001	2247	2517
45°	1920	2267	2582
50°	1840	2275	2600
55°	1734	2260	2569
60°	1630	2212	2525
65°	1531	2144	2461
70°	1408	2078	2403
75°	1272	2009	2351
80°	1111	1974	2105
85°	963	1772	1954



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	163.1	3.2
10°-20°	465.7	9.1
20°-30°	704.3	13.8
30°-40°	859.0	16.8
40°-50°	914.2	17.9
50°-60°	838.1	16.4
60°-70°	644.2	12.6
70°-80°	390.3	7.7
80°-90°	119.4	2.3
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°	1333.1	26.1
0°-40°	2192.1	43.0
0°-60°	3944.5	77.4
0°-90°	5098.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5098.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1725	1725	1725	1725	1725	
5°	1718	1716	1711	1720	1720	163
15°	1640	1642	1645	1661	1666	462
25°	1483	1495	1524	1561	1576	683
35°	1264	1294	1367	1451	1483	790
45°	1009	1056	1192	1318	1357	777
55°	739	803	964	1068	1095	659
65°	481	542	673	754	773	475
75°	245	299	386	444	452	261
85°	62	93	115	128	127	71
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1724.7	1724.7	1724.7	1724.7	1724.7
2.5°	1726.4	1723.1	1718.0	1724.7	1724.7
5°	1718.0	1716.3	1711.2	1719.7	1719.7
7.5°	1706.2	1704.5	1701.1	1711.2	1709.6
10°	1689.3	1687.6	1685.9	1697.7	1697.7
12.5°	1667.4	1667.4	1669.1	1680.9	1682.6
15°	1640.4	1642.1	1645.4	1660.6	1665.7
17.5°	1610.0	1611.7	1620.1	1640.4	1643.7
20°	1571.2	1576.2	1589.7	1616.7	1621.8
22.5°	1529.0	1537.4	1559.4	1589.7	1598.2
25°	1483.4	1495.2	1523.9	1561.0	1576.2
27.5°	1434.5	1448.0	1485.1	1532.4	1549.2
30°	1388.9	1402.4	1448.0	1507.0	1525.6
32.5°	1324.8	1348.4	1409.2	1478.4	1505.4
35°	1264.0	1294.4	1367.0	1451.3	1483.4
37.5°	1199.9	1238.7	1323.1	1426.0	1459.8
40°	1139.1	1179.6	1279.2	1394.0	1432.8
42.5°	1071.6	1118.9	1235.3	1358.5	1399.0
45°	1009.2	1056.4	1191.5	1318.0	1356.8
47.5°	938.3	994.0	1139.1	1270.8	1302.8
50°	879.2	931.6	1086.8	1208.3	1242.1
52.5°	801.6	870.8	1026.1	1140.8	1172.9
55°	739.2	803.3	963.6	1068.3	1095.3
57.5°	666.6	744.2	892.7	995.7	1019.3
60°	605.9	673.4	821.9	916.4	938.3
62.5°	540.0	612.6	747.6	835.4	860.7
65°	481.0	541.7	673.4	754.4	772.9
67.5°	418.5	481.0	600.8	675.0	693.6
70°	357.8	423.6	528.2	595.7	610.9
72.5°	298.7	356.1	454.0	519.8	528.2
75°	244.7	298.7	386.5	443.8	452.3
77.5°	194.1	243.0	322.3	367.9	371.3
80°	143.4	190.7	254.8	278.5	271.7
82.5°	101.3	138.4	185.6	190.7	187.3
85°	62.4	92.8	114.8	128.3	126.6
87.5°	27.0	42.2	59.1	55.7	59.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)