

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: P220218

Luminaire Tested: **R3-WG-3L40-LD5-UNV-24**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P220218  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35862)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: R3-WG-3L40-LD5-UNV-24  
Description: CLASS R3 2X4 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**

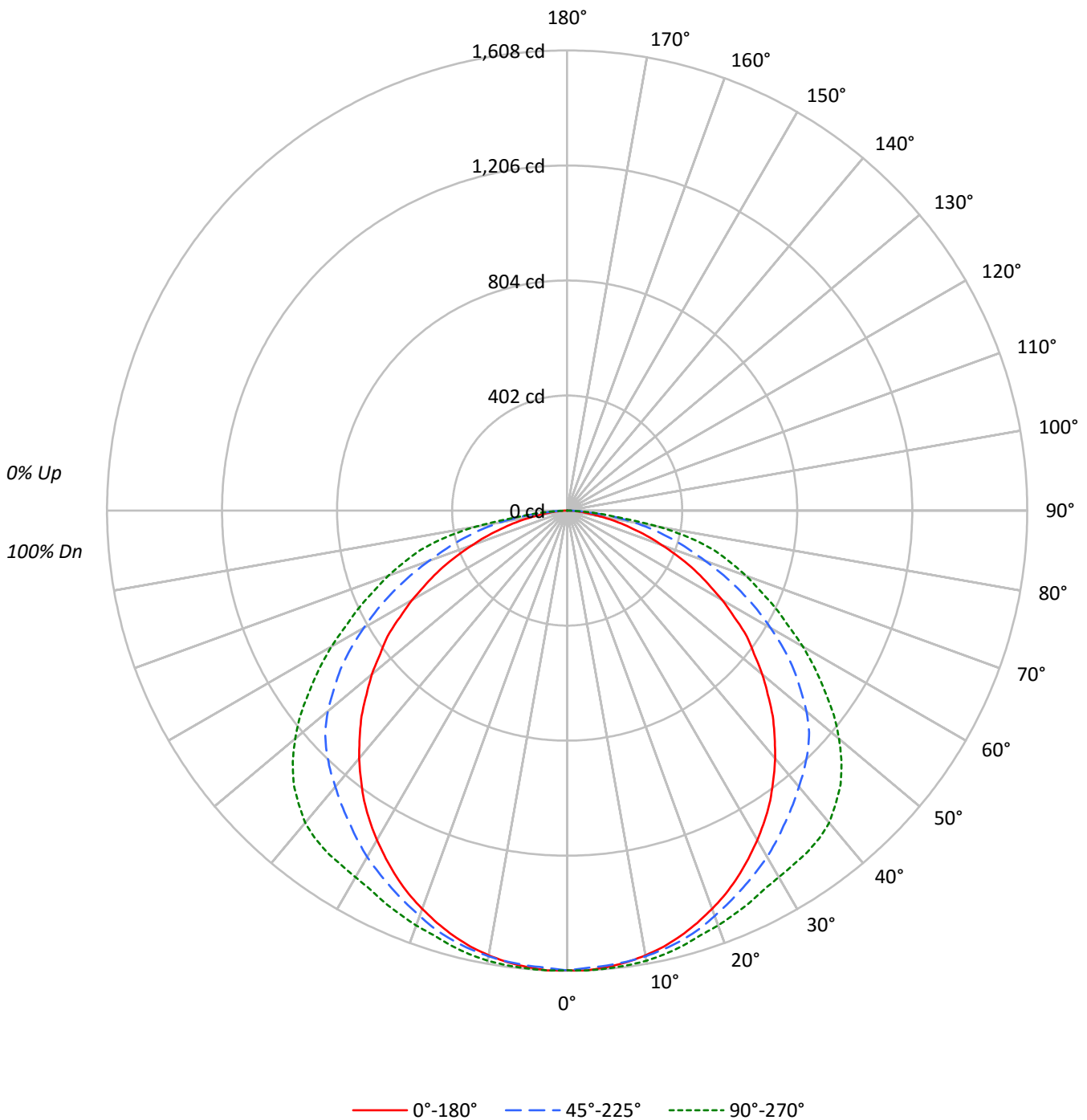
Lumens per Lamp: N/A  
Luminaire Lumens: 5009.9 lumens  
Efficiency: N/A  
Efficacy: 124.0 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.4 / 1.46  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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	95	88	81	76	84	79	74	81	76	72	78	74	71	68
3	89	78	70	63	87	77	69	63	74	67	61	71	65	60	68	63	59	57
4	81	69	60	53	79	68	59	53	65	58	52	63	56	51	61	55	51	48
5	75	61	52	45	73	60	52	45	58	51	45	56	49	44	54	48	44	41
6	69	55	46	39	67	54	46	39	52	45	39	51	44	39	49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	38	34	32
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30	28
9	55	42	33	28	54	41	33	28	40	33	27	39	32	27	38	32	27	25
10	52	38	30	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23

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

	0°	45°	90°
0°	2161	2161	2161
5°	2162	2155	2170
10°	2156	2161	2183
15°	2142	2164	2191
20°	2120	2158	2209
25°	2096	2159	2243
30°	2065	2172	2298
35°	2032	2183	2398
40°	1987	2213	2502
45°	1934	2263	2572
50°	1864	2286	2597
55°	1799	2268	2578
60°	1683	2211	2559
65°	1564	2132	2554
70°	1390	2016	2614
75°	1185	1948	2756
80°	917	1849	2547
85°	655	1227	1528



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	152.3	3.0
10°-20°	439.0	8.8
20°-30°	673.4	13.4
30°-40°	838.8	16.7
40°-50°	911.7	18.2
50°-60°	845.1	16.9
60°-70°	651.6	13.0
70°-80°	397.7	7.9
80°-90°	100.3	2.0
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°	1264.7	25.2
0°-40°	2103.5	42.0
0°-60°	3860.3	77.1
0°-90°	5009.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5009.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1606	1606	1606	1606	1606	
5°	1601	1601	1596	1605	1606	152
15°	1538	1545	1553	1569	1573	434
25°	1412	1428	1454	1497	1511	650
35°	1237	1258	1329	1423	1460	773
45°	1016	1053	1189	1310	1352	782
55°	767	818	967	1071	1099	680
65°	491	553	670	762	802	484
75°	228	283	375	481	530	244
85°	42	69	80	92	99	54
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1606.4	1606.4	1606.4	1606.4	1606.4
2.5°	1608.2	1604.6	1599.3	1606.4	1608.2
5°	1601.1	1601.1	1595.8	1604.6	1606.4
7.5°	1592.3	1590.5	1590.5	1599.3	1602.9
10°	1578.1	1578.1	1581.7	1594.0	1597.6
12.5°	1560.5	1562.2	1569.3	1583.4	1587.0
15°	1537.5	1544.6	1553.4	1569.3	1572.8
17.5°	1511.0	1518.1	1534.0	1549.9	1555.2
20°	1480.9	1491.5	1507.5	1534.0	1542.8
22.5°	1449.1	1461.5	1480.9	1514.5	1526.9
25°	1412.0	1427.9	1454.4	1496.8	1511.0
27.5°	1371.4	1389.0	1426.2	1473.9	1491.5
30°	1329.0	1346.6	1397.9	1454.4	1479.2
32.5°	1284.8	1302.5	1364.3	1436.8	1468.6
35°	1237.1	1258.3	1329.0	1422.6	1459.7
37.5°	1184.0	1207.0	1295.4	1406.7	1445.6
40°	1131.0	1157.5	1260.0	1383.7	1424.4
42.5°	1072.7	1109.8	1226.5	1350.2	1389.0
45°	1016.2	1053.3	1189.3	1309.5	1351.9
47.5°	950.8	1000.3	1146.9	1260.0	1300.7
50°	890.7	941.9	1092.2	1205.3	1240.6
52.5°	823.5	881.9	1028.5	1141.6	1175.2
55°	767.0	818.2	966.7	1070.9	1099.2
57.5°	692.8	758.1	896.0	996.7	1026.8
60°	625.6	687.5	821.8	920.7	950.8
62.5°	554.9	627.4	747.5	841.2	871.2
65°	491.3	553.1	669.8	761.7	802.3
67.5°	420.6	482.5	592.0	687.5	728.1
70°	353.4	415.3	512.5	616.8	664.5
72.5°	289.8	346.4	441.8	546.1	595.6
75°	228.0	282.8	374.7	480.7	530.2
77.5°	171.4	222.7	307.5	406.5	438.3
80°	118.4	166.1	238.6	307.5	328.7
82.5°	76.0	116.6	160.8	185.6	175.0
85°	42.4	68.9	79.5	91.9	99.0
87.5°	19.4	23.0	28.3	31.8	31.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)