

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: P219984

Luminaire Tested: **R3-WD-3L40-LD5-UNV-14**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P219984  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35871)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: R3-WD-3L40-LD5-UNV-14  
Description: CLASS R3 1X4 RECESSED LED LUMIANIRE  
WITH A CLEAR SMOOTH ROUND LENS & ROUND PERF INLAY  
Light Source: (168) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3891.7 lumens  
Efficiency: N/A  
Efficacy: 116.9 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.24 / 1.33  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

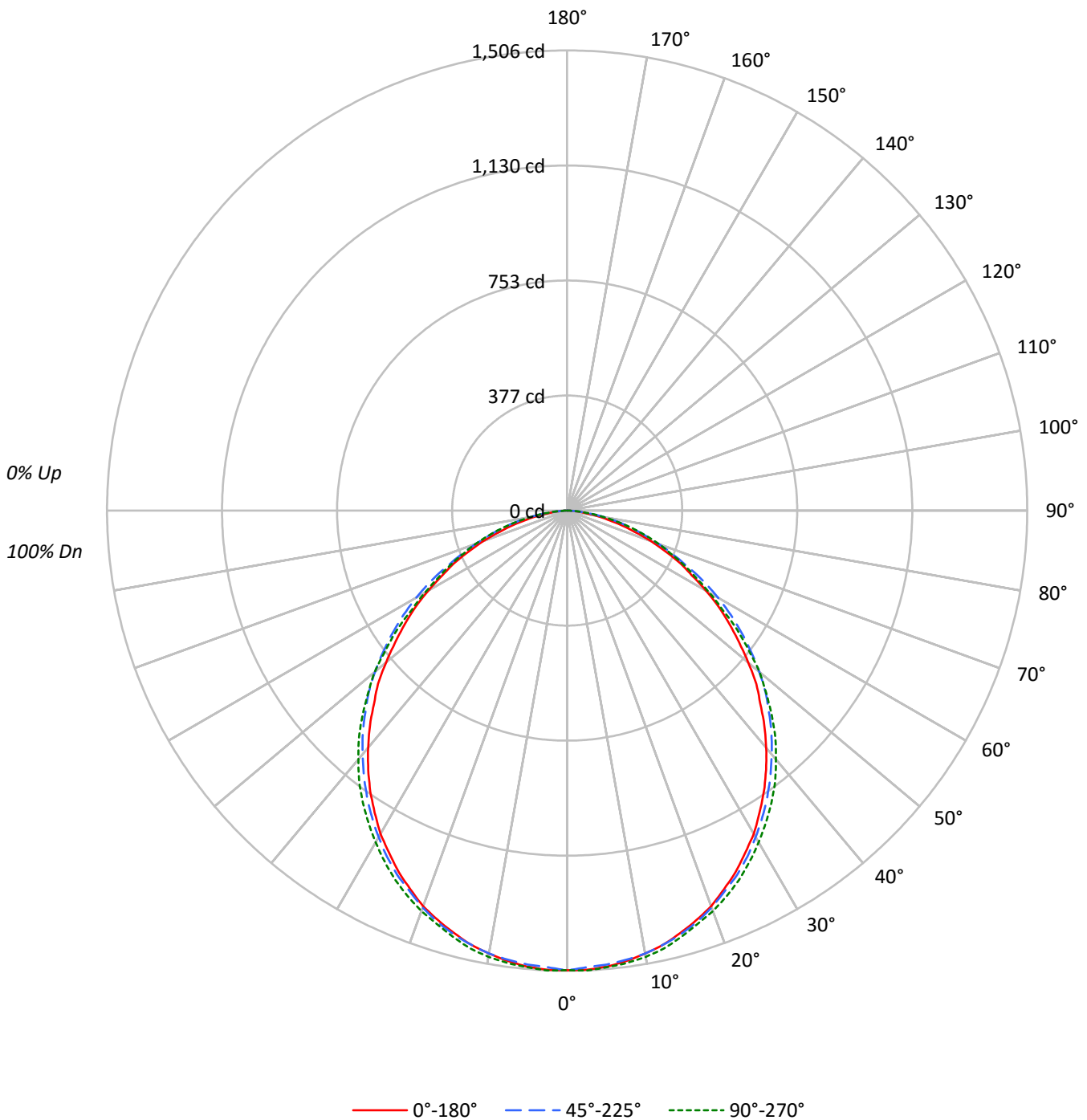
Input Watts (W): 33.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	103	99	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	72
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	63	55	49	61	54	49	59	53	48	58	52	47	45
6	71	58	49	43	69	57	49	43	56	48	43	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	51	43	38	49	43	38	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	32
9	58	44	36	31	56	44	36	31	43	36	31	42	35	30	41	35	30	29
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26

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

	0°	45°	90°
0°	4048	4048	4048
5°	4046	4029	4052
10°	4023	4023	4052
15°	3988	4000	4024
20°	3946	3958	3995
25°	3875	3907	3958
30°	3795	3835	3895
35°	3689	3752	3829
40°	3561	3658	3734
45°	3401	3556	3604
50°	3239	3436	3445
55°	3046	3267	3187
60°	2826	3068	2895
65°	2606	2770	2688
70°	2293	2495	2512
75°	1893	2250	2273
80°	1461	1892	1860
85°	991	1325	1257



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	142.3	3.7
10°-20°	405.6	10.4
20°-30°	607.1	15.6
30°-40°	715.2	18.4
40°-50°	715.7	18.4
50°-60°	607.7	15.6
60°-70°	424.2	10.9
70°-80°	223.4	5.7
80°-90°	50.4	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°	1155.0	29.7
0°-40°	1870.2	48.1
0°-60°	3193.7	82.1
0°-90°	3891.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3891.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1504	1504	1504	1504	1504	
5°	1498	1498	1491	1500	1500	142
15°	1431	1436	1436	1444	1444	404
25°	1305	1311	1316	1333	1333	601
35°	1123	1129	1142	1161	1166	701
45°	894	909	934	949	947	691
55°	649	673	696	692	679	580
65°	409	431	435	426	422	402
75°	182	206	216	219	219	196
85°	32	41	43	41	41	41
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1504.3	1504.3	1504.3	1504.3	1504.3
2.5°	1504.3	1502.1	1495.7	1504.3	1506.4
5°	1497.9	1497.9	1491.4	1500.0	1500.0
7.5°	1487.1	1489.3	1482.9	1493.6	1493.6
10°	1472.1	1474.3	1472.1	1482.9	1482.9
12.5°	1455.0	1457.1	1455.0	1465.7	1467.9
15°	1431.4	1435.7	1435.7	1444.3	1444.3
17.5°	1405.7	1410.0	1412.1	1418.6	1418.6
20°	1377.9	1382.1	1382.1	1392.9	1395.0
22.5°	1341.4	1347.9	1347.9	1365.0	1365.0
25°	1305.0	1311.4	1315.7	1332.9	1332.9
27.5°	1262.1	1268.6	1277.1	1294.3	1294.3
30°	1221.4	1223.6	1234.3	1247.1	1253.6
32.5°	1172.1	1178.6	1189.3	1208.6	1210.7
35°	1122.9	1129.3	1142.1	1161.4	1165.7
37.5°	1069.3	1075.7	1092.9	1116.4	1118.6
40°	1013.6	1020.0	1041.4	1065.0	1062.9
42.5°	955.7	964.3	990.0	1007.1	1009.3
45°	893.6	908.6	934.3	949.3	947.1
47.5°	840.0	850.7	880.7	887.1	882.9
50°	773.6	792.9	820.7	825.0	822.9
52.5°	709.3	728.6	758.6	758.6	747.9
55°	649.3	672.9	696.4	692.1	679.3
57.5°	589.3	608.6	634.3	621.4	602.1
60°	525.0	548.6	570.0	548.6	537.9
62.5°	460.7	492.9	505.7	482.1	475.7
65°	409.3	430.7	435.0	426.4	422.1
67.5°	347.1	375.0	375.0	370.7	366.4
70°	291.4	315.0	317.1	319.3	319.3
72.5°	233.6	261.4	263.6	270.0	267.9
75°	182.1	205.7	216.4	218.6	218.6
77.5°	135.0	154.3	169.3	169.3	167.1
80°	94.3	111.4	122.1	122.1	120.0
82.5°	57.9	72.9	81.4	79.3	79.3
85°	32.1	40.7	42.9	40.7	40.7
87.5°	12.9	15.0	12.9	8.6	8.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)