

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: P220119

Luminaire Tested: **R3-WN-1L40-LD5-UNV-22**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P220119  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35856)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: R3-WN-1L40-LD5-UNV-22  
Description: CLASS R3 2X2 RECESSED LED LUMIANIRE  
WITH A CLEAR SMOOTH ROUND LENS & NANO-PRISM INLAY  
Light Source: (84) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2102.3 lumens  
Efficiency: N/A  
Efficacy: 128.2 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.28 / 1.37  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

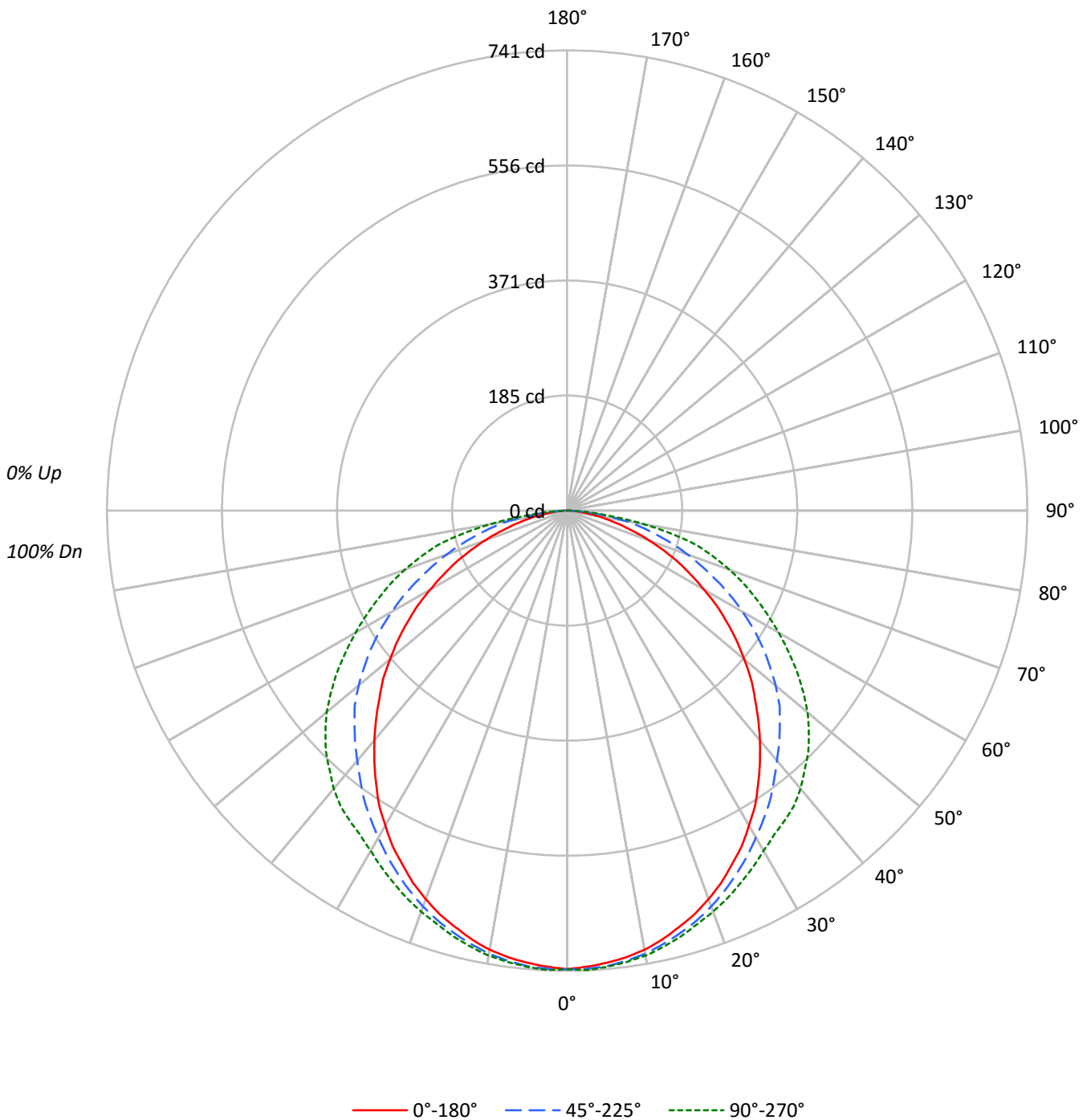
Input Watts (W): 16.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	109	104	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85	83
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	57	52	61	56	52	49
5	75	62	53	47	73	61	53	46	59	52	46	57	50	45	55	49	45	43
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	46	40	35	33
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

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

	0°	45°	90°
0°	1987	1987	1987
5°	1975	1989	1992
10°	1962	1980	1989
15°	1935	1962	1977
20°	1907	1943	1968
25°	1866	1917	1964
30°	1820	1890	1966
35°	1762	1871	2005
40°	1697	1847	2054
45°	1627	1842	2090
50°	1557	1834	2116
55°	1474	1805	2121
60°	1369	1754	2117
65°	1259	1687	2137
70°	1110	1623	2186
75°	922	1544	2245
80°	728	1441	1922
85°	494	1022	1288



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	69.8	3.3
10°-20°	198.4	9.4
20°-30°	297.5	14.2
30°-40°	357.4	17.0
40°-50°	375.2	17.8
50°-60°	342.3	16.3
60°-70°	263.7	12.5
70°-80°	158.6	7.5
80°-90°	39.3	1.9
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°	565.7	26.9
0°-40°	923.1	43.9
0°-60°	1640.6	78.0
0°-90°	2102.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2102.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	738	738	738	738	738	
5°	731	733	736	737	737	69
15°	695	698	704	708	710	196
25°	628	634	646	657	662	290
35°	536	545	570	596	610	335
45°	428	441	484	530	549	330
55°	314	334	385	433	452	281
65°	198	219	265	314	336	195
75°	89	110	148	194	216	96
85°	16	24	33	38	42	21
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	738.5	738.5	738.5	738.5	738.5
2.5°	735.2	736.3	738.5	740.6	740.6
5°	731.0	733.1	736.3	737.4	737.4
7.5°	725.6	727.8	731.0	733.1	733.1
10°	718.1	719.2	724.6	726.7	727.8
12.5°	707.5	710.7	714.9	719.2	719.2
15°	694.6	697.8	704.3	708.5	709.6
17.5°	681.8	685.0	692.5	697.8	697.8
20°	665.8	670.1	678.6	685.0	687.2
22.5°	648.7	653.0	662.6	671.1	675.4
25°	628.4	633.7	645.5	657.2	661.5
27.5°	609.1	613.4	627.3	643.3	647.6
30°	585.6	592.0	608.1	626.2	632.7
32.5°	563.2	569.6	588.8	610.2	619.8
35°	536.5	545.0	569.6	596.3	610.2
37.5°	509.8	519.4	547.2	582.4	599.5
40°	483.0	493.7	525.8	569.6	584.6
42.5°	455.3	468.1	505.5	551.4	566.4
45°	427.5	441.4	484.1	530.1	549.3
47.5°	401.8	415.7	463.8	509.8	527.9
50°	371.9	389.0	438.2	487.3	505.5
52.5°	344.1	360.1	411.4	460.6	478.8
55°	314.2	334.5	384.7	432.8	452.0
57.5°	286.4	304.6	355.9	402.9	422.1
60°	254.3	275.7	325.9	373.0	393.3
62.5°	225.5	246.9	297.1	343.0	364.4
65°	197.7	219.1	265.0	314.2	335.6
67.5°	168.9	191.3	235.1	285.3	307.8
70°	141.1	161.4	206.3	255.4	277.9
72.5°	113.3	134.7	177.4	225.5	246.9
75°	88.7	110.1	148.5	194.5	215.9
77.5°	67.3	84.4	121.8	160.3	173.1
80°	47.0	63.1	93.0	118.6	124.0
82.5°	29.9	42.7	60.9	74.8	73.7
85°	16.0	23.5	33.1	38.5	41.7
87.5°	7.5	8.5	10.7	13.9	15.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)