

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: P219949

Luminaire Tested: **R3-WL-1L35-LD5-UNV-14**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P219949  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35869)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: R3-WL-1L35-LD5-UNV-14  
Description: CLASS R3 1X4 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: 2030.4 lumens  
Efficiency: N/A  
Efficacy: 128.5 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.25 / 1.33  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

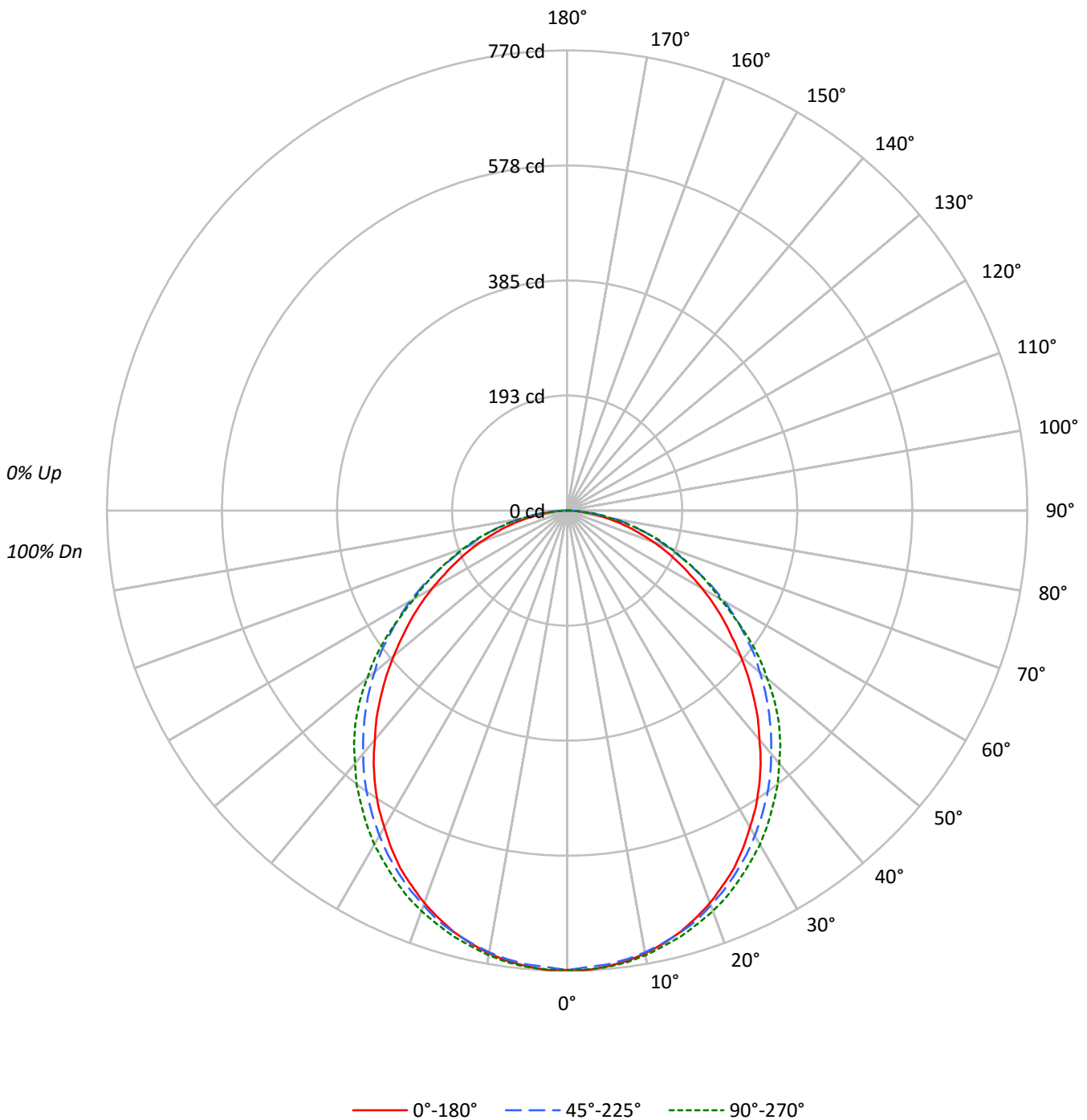
Input Watts (W): 15.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	81	76	82	78	74	79	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53	51
5	77	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	47	44
6	71	58	49	42	69	57	48	42	55	47	42	53	47	41	52	46	41	39
7	66	52	44	38	64	51	43	37	50	43	37	48	42	37	47	41	37	35
8	61	48	39	34	60	47	39	33	46	38	33	45	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25

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

	0°	45°	90°
0°	2068	2068	2068
5°	2068	2060	2071
10°	2056	2050	2064
15°	2034	2037	2054
20°	2001	2013	2042
25°	1961	1985	2024
30°	1901	1951	2005
35°	1841	1914	1973
40°	1759	1865	1940
45°	1678	1817	1905
50°	1588	1761	1829
55°	1499	1704	1732
60°	1404	1633	1595
65°	1307	1520	1526
70°	1209	1416	1441
75°	1094	1346	1346
80°	956	1254	1176
85°	812	1031	905



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	72.6	3.6
10°-20°	206.7	10.2
20°-30°	308.8	15.2
30°-40°	363.9	17.9
40°-50°	365.7	18.0
50°-60°	316.3	15.6
60°-70°	228.8	11.3
70°-80°	131.5	6.5
80°-90°	36.1	1.8
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°	588.2	29.0
0°-40°	952.1	46.9
0°-60°	1634.0	80.5
0°-90°	2030.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2030.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	769	769	769	769	769	
5°	766	766	763	767	767	73
15°	730	731	731	737	737	206
25°	660	662	668	680	682	303
35°	560	567	582	598	601	350
45°	441	454	477	497	501	340
55°	320	335	363	374	369	286
65°	205	220	239	240	240	204
75°	105	116	130	134	130	112
85°	26	31	33	31	29	30
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	768.6	768.6	768.6	768.6	768.6
2.5°	769.6	768.6	764.6	768.6	768.6
5°	765.6	765.6	762.6	766.6	766.6
7.5°	760.5	759.5	757.5	761.5	762.6
10°	752.4	752.4	750.4	755.5	755.5
12.5°	742.3	742.3	741.3	747.4	746.4
15°	730.2	731.2	731.2	737.3	737.3
17.5°	715.0	717.0	719.1	726.1	725.1
20°	698.8	700.9	702.9	712.0	713.0
22.5°	679.6	682.7	686.7	697.8	698.8
25°	660.4	662.4	668.5	679.6	681.6
27.5°	637.1	641.2	649.3	662.4	663.4
30°	611.9	618.9	628.0	642.2	645.2
32.5°	587.6	593.7	605.8	621.0	624.0
35°	560.3	567.4	582.5	597.7	600.7
37.5°	532.0	539.0	558.3	574.4	578.5
40°	500.6	510.7	531.0	549.2	552.2
42.5°	472.3	481.4	504.7	522.9	527.9
45°	440.9	454.1	477.4	496.6	500.6
47.5°	410.6	422.7	450.1	468.3	470.3
50°	379.3	394.4	420.7	438.9	436.9
52.5°	347.9	364.1	394.4	405.6	405.6
55°	319.6	334.8	363.1	374.2	369.1
57.5°	290.3	306.4	333.7	340.8	330.7
60°	260.9	276.1	303.4	302.4	296.3
62.5°	231.6	247.8	272.1	270.0	268.0
65°	205.3	219.5	238.7	239.7	239.7
67.5°	180.0	194.2	207.3	212.4	209.3
70°	153.7	167.9	180.0	185.1	183.1
72.5°	128.4	143.6	153.7	159.8	157.8
75°	105.2	116.3	129.5	133.5	129.5
77.5°	81.9	93.0	105.2	107.2	103.2
80°	61.7	70.8	80.9	78.9	75.9
82.5°	43.5	50.6	56.6	53.6	51.6
85°	26.3	31.4	33.4	31.4	29.3
87.5°	11.1	13.1	13.1	11.1	11.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)