

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: P220038

Luminaire Tested: **Z3-WD-1L40-LD5-UNV-14**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P220038  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35875)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: Z3-WD-1L40-LD5-UNV-14  
Description: CLASS Z3 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: 1894.7 lumens  
Efficiency: N/A  
Efficacy: 119.9 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.23 / 1.33  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

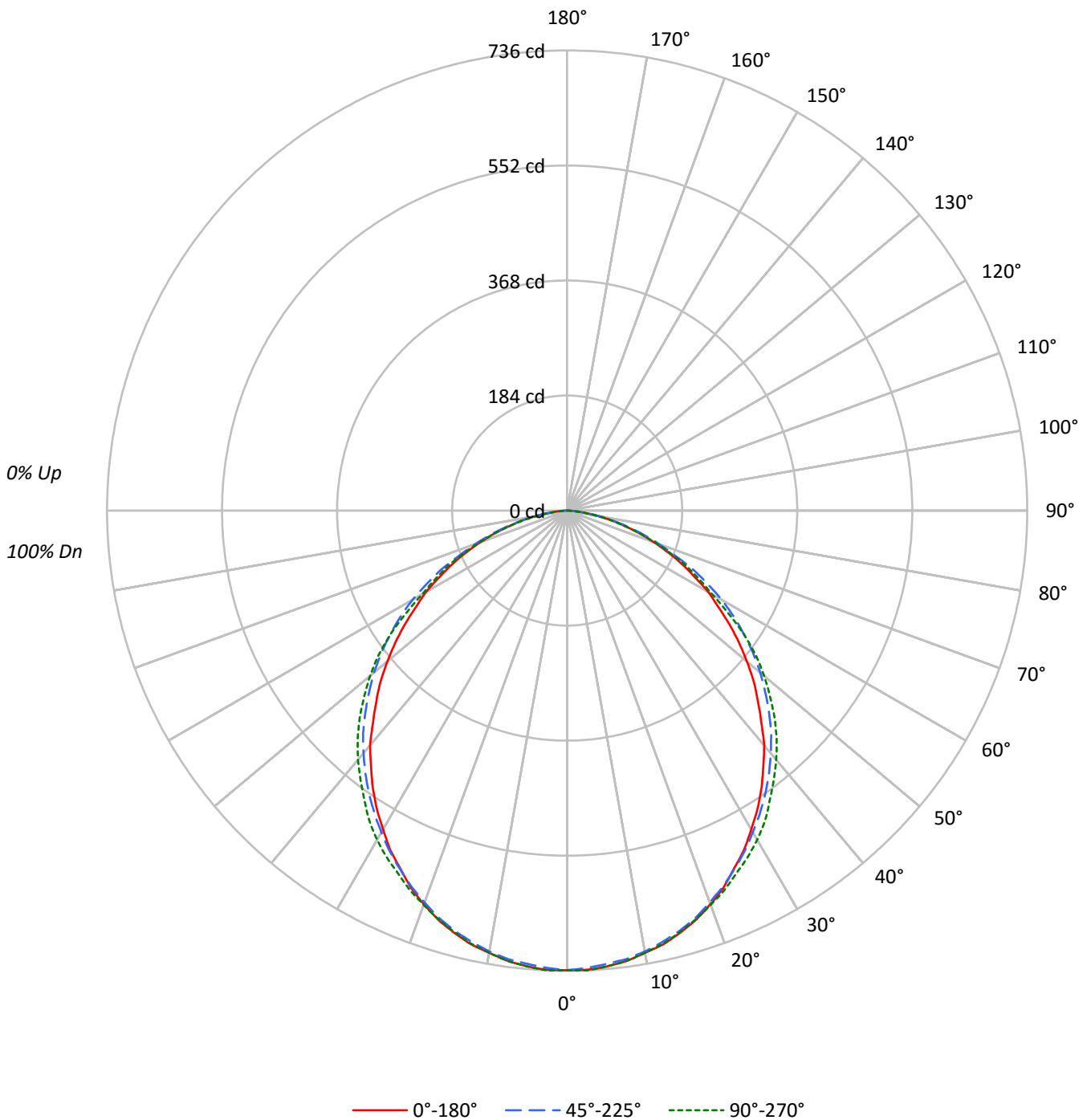
Input Watts (W): 15.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	87	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	63	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	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	43	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	32
9	58	44	36	31	56	44	36	31	43	36	31	42	35	30	41	35	30	28
10	54	41	33	28	53	40	33	28	39	33	28	39	32	28	38	32	28	26

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

	0°	45°	90°
0°	1978	1978	1978
5°	1977	1966	1977
10°	1962	1956	1962
15°	1947	1938	1944
20°	1919	1910	1922
25°	1875	1879	1901
30°	1830	1846	1890
35°	1780	1815	1857
40°	1723	1779	1828
45°	1643	1737	1785
50°	1570	1687	1722
55°	1484	1620	1620
60°	1404	1535	1438
65°	1293	1408	1340
70°	1161	1227	1177
75°	989	1045	989
80°	778	812	762
85°	494	494	395



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	69.4	3.7
10°-20°	196.6	10.4
20°-30°	292.7	15.4
30°-40°	346.0	18.3
40°-50°	349.4	18.4
50°-60°	302.1	15.9
60°-70°	210.9	11.1
70°-80°	106.4	5.6
80°-90°	21.2	1.1
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°	558.7	29.5
0°-40°	904.7	47.8
0°-60°	1556.2	82.1
0°-90°	1894.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1894.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	735	735	735	735	735	
5°	732	731	728	732	732	69
15°	699	698	696	698	698	197
25°	632	633	633	639	640	291
35°	542	544	552	563	565	338
45°	432	438	456	468	469	334
55°	316	330	345	350	345	283
65°	203	216	221	210	210	201
75°	95	105	100	97	95	102
85°	16	18	16	14	13	21
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	735.2	735.2	735.2	735.2	735.2
2.5°	735.2	735.2	732.0	736.3	736.3
5°	732.0	731.0	727.8	732.0	732.0
7.5°	726.7	725.6	723.5	726.7	726.7
10°	718.1	718.1	716.0	719.2	718.1
12.5°	710.7	709.6	706.4	709.6	709.6
15°	698.9	697.8	695.7	697.8	697.8
17.5°	686.1	683.9	682.9	685.0	685.0
20°	670.1	669.0	666.8	671.1	671.1
22.5°	653.0	650.8	650.8	655.1	657.2
25°	631.6	632.7	632.7	639.1	640.1
27.5°	612.3	612.3	614.5	622.0	625.2
30°	588.8	591.0	594.2	603.8	608.1
32.5°	566.4	569.6	573.9	585.6	588.8
35°	541.8	544.0	552.5	563.2	565.3
37.5°	515.1	517.2	530.1	541.8	542.9
40°	490.5	491.6	506.5	517.2	520.4
42.5°	459.5	467.0	483.0	493.7	495.9
45°	431.7	438.2	456.3	468.1	469.1
47.5°	405.0	411.4	429.6	439.2	440.3
50°	375.1	383.7	402.9	410.4	411.4
52.5°	346.2	356.9	375.1	381.5	380.4
55°	316.3	330.2	345.2	349.5	345.2
57.5°	286.4	302.4	316.3	315.3	305.6
60°	260.8	272.5	285.3	275.7	267.2
62.5°	229.8	244.7	252.2	239.4	238.3
65°	203.0	215.9	221.2	209.5	210.5
67.5°	174.2	187.0	184.9	181.7	179.5
70°	147.5	160.3	156.0	151.8	149.6
72.5°	121.8	132.5	128.2	125.0	121.8
75°	95.1	104.7	100.5	97.2	95.1
77.5°	72.7	78.0	75.9	72.7	70.5
80°	50.2	55.6	52.4	49.2	49.2
82.5°	31.0	35.3	32.1	29.9	28.9
85°	16.0	18.2	16.0	13.9	12.8
87.5°	6.4	6.4	4.3	3.2	3.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)