

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: P220024

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P220024  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35874)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: Z3-WG-1L40-LD5-UNV-14  
Description: CLASS Z3 1X4 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: 1907.7 lumens  
Efficiency: N/A  
Efficacy: 120.7 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.35  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

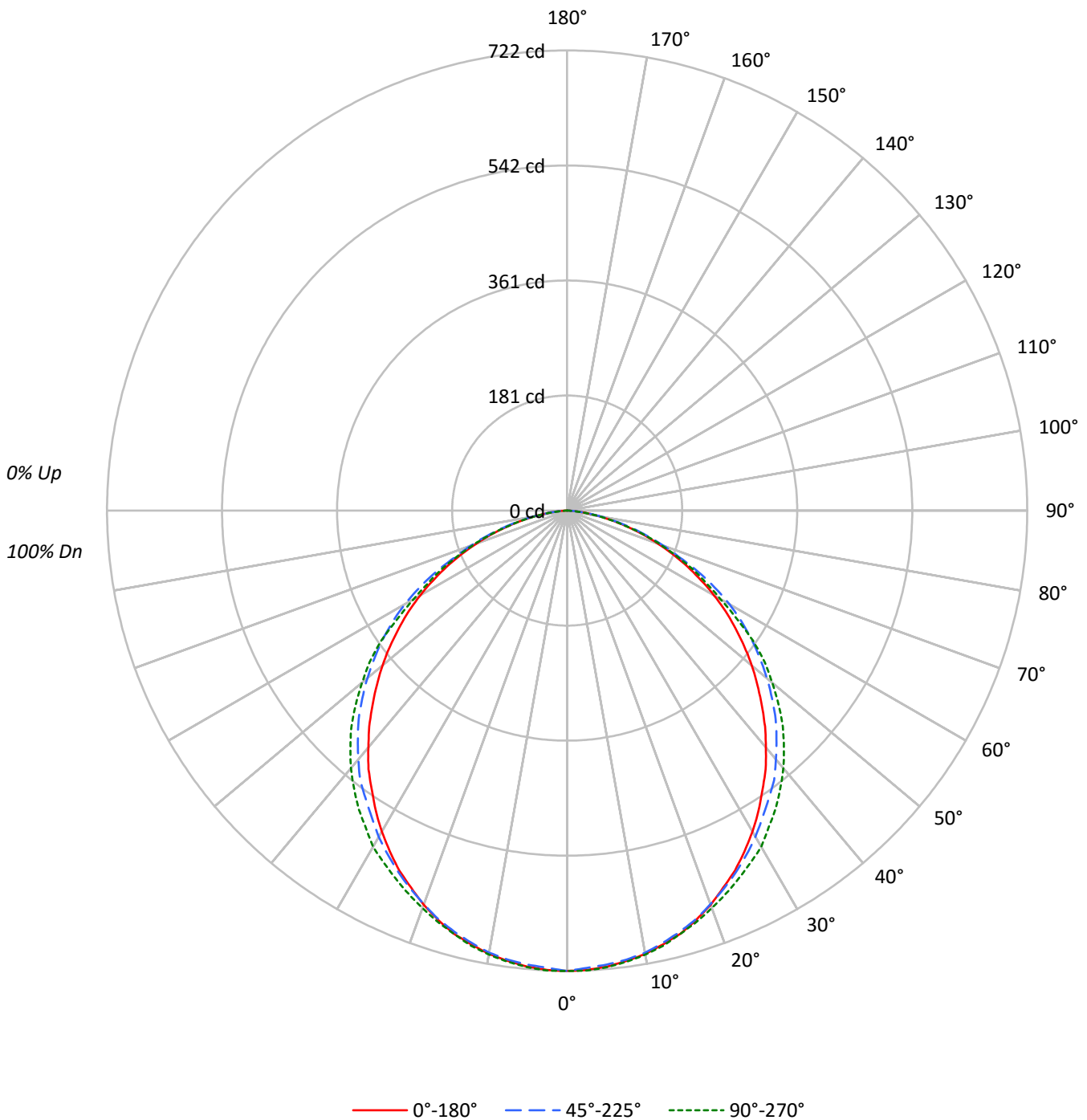
Input Watts (W): 15.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	73	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	60
4	83	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52
5	77	64	55	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	42	53	47	42	52	46	41	39
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35
8	61	48	40	34	60	47	39	34	46	39	33	45	38	33	44	37	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	52	40	33	28	39	32	27	38	32	27	37	31	27	25

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

	0°	45°	90°
0°	1944	1944	1944
5°	1940	1931	1943
10°	1930	1924	1933
15°	1914	1905	1914
20°	1885	1882	1900
25°	1850	1859	1891
30°	1807	1836	1893
35°	1755	1811	1875
40°	1704	1791	1854
45°	1643	1761	1822
50°	1584	1714	1758
55°	1514	1659	1670
60°	1432	1582	1496
65°	1327	1443	1381
70°	1194	1261	1227
75°	1011	1078	1022
80°	795	828	762
85°	528	494	395



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	68.1	3.6
10°-20°	193.5	10.1
20°-30°	289.7	15.2
30°-40°	345.7	18.1
40°-50°	353.1	18.5
50°-60°	309.3	16.2
60°-70°	217.4	11.4
70°-80°	109.2	5.7
80°-90°	21.4	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°	551.4	28.9
0°-40°	897.2	47.0
0°-60°	1559.6	81.8
0°-90°	1907.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1907.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	722	722	722	722	722	
5°	718	718	715	719	719	68
15°	687	686	684	688	687	193
25°	623	624	626	635	637	287
35°	534	539	551	566	571	335
45°	432	440	463	476	479	333
55°	323	339	354	359	356	288
65°	208	221	227	218	217	206
75°	97	107	104	100	98	104
85°	17	18	16	14	13	22
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	722.4	722.4	722.4	722.4	722.4
2.5°	721.4	721.4	718.1	722.4	722.4
5°	718.1	718.1	714.9	719.2	719.2
7.5°	712.8	712.8	710.7	713.9	713.9
10°	706.4	706.4	704.3	707.5	707.5
12.5°	696.8	696.8	694.6	697.8	698.9
15°	687.2	686.1	683.9	688.2	687.2
17.5°	673.3	673.3	672.2	676.5	676.5
20°	658.3	659.4	657.2	662.6	663.6
22.5°	640.1	641.2	642.3	648.7	650.8
25°	623.0	624.1	626.2	634.8	636.9
27.5°	602.7	604.9	609.1	618.8	623.0
30°	581.4	584.6	591.0	603.8	609.1
32.5°	558.9	563.2	570.7	586.7	588.8
35°	534.3	538.6	551.4	566.4	570.7
37.5°	511.9	516.2	533.3	546.1	549.3
40°	485.2	491.6	509.8	523.6	527.9
42.5°	459.5	465.9	486.2	500.1	503.3
45°	431.7	440.3	462.7	475.6	478.8
47.5°	405.0	414.6	436.0	447.8	449.9
50°	378.3	389.0	409.3	421.1	420.0
52.5°	350.5	362.3	381.5	391.1	391.1
55°	322.7	338.8	353.7	359.1	355.9
57.5°	295.0	308.8	324.9	324.9	315.3
60°	266.1	280.0	293.9	285.3	277.9
62.5°	237.2	251.1	260.8	247.9	245.8
65°	208.4	221.2	226.6	218.0	216.9
67.5°	179.5	192.4	190.2	189.2	184.9
70°	151.8	163.5	160.3	158.2	156.0
72.5°	125.0	135.7	131.4	128.2	127.2
75°	97.2	106.9	103.7	100.5	98.3
77.5°	72.7	79.1	78.0	74.8	72.7
80°	51.3	55.6	53.4	51.3	49.2
82.5°	31.0	35.3	33.1	29.9	28.9
85°	17.1	18.2	16.0	13.9	12.8
87.5°	6.4	5.3	4.3	4.3	3.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)