

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: P220013

Luminaire Tested: **Z3-WL-4L40-LD5-UNV-14**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P220013  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35873)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: Z3-WL-4L40-LD5-UNV-14  
Description: CLASS Z3 1X4 RECESSED LED LUMIANIRE  
WITH A FROSTED PRISMATIC ROUND LENS  
Light Source: (168) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5345.6 lumens  
Efficiency: N/A  
Efficacy: 123.5 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.31  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

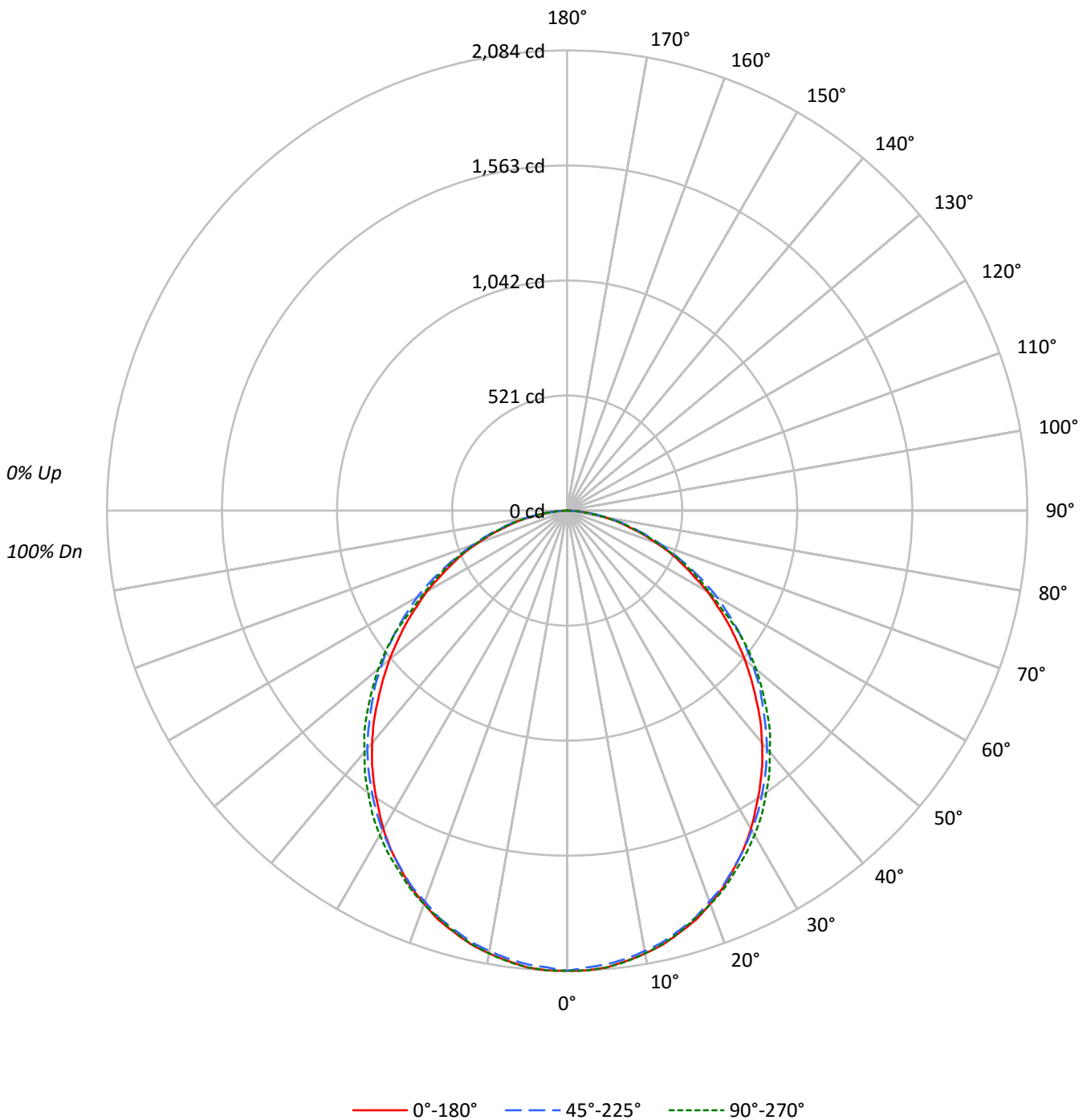
Input Watts (W): 43.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	100	97	106	102	99	95	98	95	92	94	92	89	91	89	87	85
2	100	92	85	79	97	90	84	78	86	81	77	83	79	75	80	76	73	71
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	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	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	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26

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

	0°	45°	90°
0°	5609	5609	5609
5°	5609	5573	5609
10°	5564	5535	5564
15°	5509	5479	5502
20°	5426	5395	5433
25°	5308	5300	5348
30°	5173	5198	5273
35°	5004	5074	5153
40°	4825	4947	5013
45°	4607	4770	4861
50°	4397	4609	4676
55°	4175	4426	4400
60°	3955	4214	4027
65°	3675	3896	3794
70°	3385	3574	3469
75°	3029	3223	3140
80°	2650	2858	2692
85°	2226	2146	1979



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	196.5	3.7
10°-20°	556.5	10.4
20°-30°	825.8	15.4
30°-40°	967.2	18.1
40°-50°	965.1	18.1
50°-60°	829.6	15.5
60°-70°	595.4	11.1
70°-80°	327.2	6.1
80°-90°	82.3	1.5
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°	1578.9	29.5
0°-40°	2546.1	47.6
0°-60°	4340.7	81.2
0°-90°	5345.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5345.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2084	2084	2084	2084	2084	
5°	2076	2074	2063	2076	2076	197
15°	1977	1975	1967	1977	1975	558
25°	1788	1788	1785	1801	1801	823
35°	1523	1528	1544	1566	1569	952
45°	1210	1224	1253	1277	1277	935
55°	890	914	943	949	938	795
65°	577	604	612	601	596	573
75°	291	313	310	310	302	312
85°	72	75	70	62	64	83
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2084.3	2084.3	2084.3	2084.3	2084.3
2.5°	2084.3	2081.7	2071.0	2084.3	2084.3
5°	2076.3	2073.6	2063.0	2076.3	2076.3
7.5°	2057.6	2057.6	2046.9	2057.6	2060.3
10°	2036.2	2036.2	2025.5	2038.9	2036.2
12.5°	2012.2	2006.8	2001.5	2012.2	2009.5
15°	1977.4	1974.8	1966.8	1977.4	1974.8
17.5°	1942.7	1937.4	1932.0	1940.0	1934.7
20°	1894.6	1891.9	1883.9	1897.3	1897.3
22.5°	1846.5	1843.8	1841.2	1851.8	1854.5
25°	1787.7	1787.7	1785.0	1801.1	1801.1
27.5°	1728.9	1728.9	1731.6	1750.3	1753.0
30°	1664.8	1664.8	1672.8	1694.2	1696.9
32.5°	1592.6	1598.0	1611.3	1635.4	1638.1
35°	1523.2	1528.5	1544.5	1565.9	1568.6
37.5°	1451.0	1456.4	1477.7	1499.1	1504.5
40°	1373.5	1378.9	1408.3	1427.0	1427.0
42.5°	1296.0	1304.0	1330.8	1354.8	1360.2
45°	1210.5	1223.9	1253.3	1277.3	1277.3
47.5°	1130.3	1149.1	1181.1	1202.5	1197.2
50°	1050.2	1068.9	1101.0	1119.7	1117.0
52.5°	967.3	988.7	1023.5	1036.8	1031.5
55°	889.8	913.9	943.3	948.6	937.9
57.5°	807.0	833.7	860.5	860.5	831.1
60°	734.9	756.2	783.0	753.6	748.2
62.5°	649.3	681.4	700.1	673.4	673.4
65°	577.2	603.9	611.9	601.2	595.9
67.5°	507.7	529.1	529.1	523.8	521.1
70°	430.2	454.3	454.3	446.3	440.9
72.5°	360.7	384.8	382.1	382.1	371.4
75°	291.3	312.6	310.0	310.0	302.0
77.5°	232.5	243.2	248.5	240.5	237.8
80°	171.0	181.7	184.4	176.4	173.7
82.5°	114.9	125.6	125.6	120.2	114.9
85°	72.1	74.8	69.5	61.5	64.1
87.5°	32.1	29.4	24.0	16.0	16.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)