

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: P220003

Luminaire Tested: **Z3-WL-4L30-LD5-UNV-14**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P220003  
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-4L30-LD5-UNV-14  
Description: CLASS Z3 1X4 RECESSED LED LUMIANIRE  
WITH A FROSTED PRISMATIC ROUND LENS  
Light Source: (168) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5002.1 lumens  
Efficiency: N/A  
Efficacy: 115.5 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

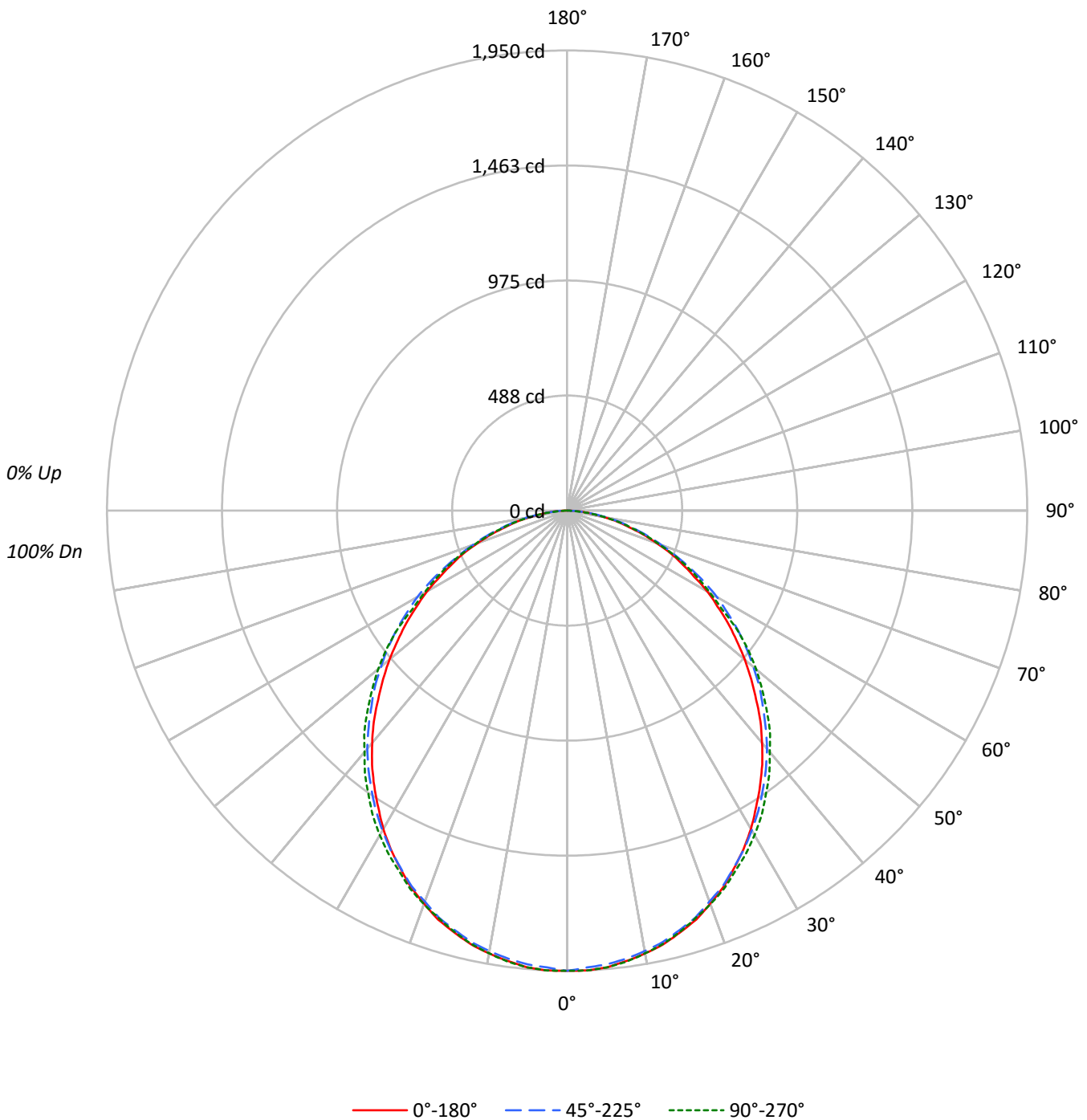
Input Watts (W): 43.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	5248	5248	5248
5°	5248	5215	5248
10°	5206	5179	5206
15°	5155	5127	5148
20°	5077	5048	5084
25°	4967	4959	5004
30°	4841	4864	4934
35°	4682	4748	4822
40°	4515	4629	4691
45°	4311	4463	4548
50°	4114	4313	4376
55°	3907	4141	4118
60°	3701	3943	3768
65°	3439	3646	3550
70°	3168	3345	3246
75°	2834	3016	2938
80°	2479	2673	2518
85°	2084	2007	1853



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	183.9	3.7
10°-20°	520.8	10.4
20°-30°	772.8	15.4
30°-40°	905.0	18.1
40°-50°	903.1	18.1
50°-60°	776.3	15.5
60°-70°	557.1	11.1
70°-80°	306.2	6.1
80°-90°	77.0	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°	1477.5	29.5
0°-40°	2382.5	47.6
0°-60°	4061.8	81.2
0°-90°	5002.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5002.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1950	1950	1950	1950	1950	
5°	1943	1940	1930	1943	1943	184
15°	1850	1848	1840	1850	1848	522
25°	1673	1673	1670	1685	1685	770
35°	1425	1430	1445	1465	1468	891
45°	1133	1145	1173	1195	1195	875
55°	833	855	883	888	878	744
65°	540	565	573	563	558	536
75°	273	293	290	290	283	292
85°	68	70	65	58	60	78
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1950.4	1950.4	1950.4	1950.4	1950.4
2.5°	1950.4	1947.9	1937.9	1950.4	1950.4
5°	1942.9	1940.4	1930.4	1942.9	1942.9
7.5°	1925.4	1925.4	1915.4	1925.4	1927.9
10°	1905.4	1905.4	1895.4	1907.9	1905.4
12.5°	1882.9	1877.9	1872.9	1882.9	1880.4
15°	1850.4	1847.9	1840.4	1850.4	1847.9
17.5°	1817.9	1812.9	1807.9	1815.4	1810.4
20°	1772.9	1770.4	1762.9	1775.4	1775.4
22.5°	1727.9	1725.4	1722.9	1732.9	1735.4
25°	1672.8	1672.8	1670.3	1685.3	1685.3
27.5°	1617.8	1617.8	1620.3	1637.8	1640.3
30°	1557.8	1557.8	1565.3	1585.3	1587.8
32.5°	1490.3	1495.3	1507.8	1530.3	1532.8
35°	1425.3	1430.3	1445.3	1465.3	1467.8
37.5°	1357.8	1362.8	1382.8	1402.8	1407.8
40°	1285.3	1290.3	1317.8	1335.3	1335.3
42.5°	1212.7	1220.2	1245.3	1267.8	1272.8
45°	1132.7	1145.2	1172.7	1195.2	1195.2
47.5°	1057.7	1075.2	1105.2	1125.2	1120.2
50°	982.7	1000.2	1030.2	1047.7	1045.2
52.5°	905.2	925.2	957.7	970.2	965.2
55°	832.7	855.2	882.7	887.7	877.7
57.5°	755.2	780.2	805.2	805.2	777.7
60°	687.6	707.6	732.6	705.1	700.1
62.5°	607.6	637.6	655.1	630.1	630.1
65°	540.1	565.1	572.6	562.6	557.6
67.5°	475.1	495.1	495.1	490.1	487.6
70°	402.6	425.1	425.1	417.6	412.6
72.5°	337.6	360.1	357.6	357.6	347.6
75°	272.6	292.6	290.1	290.1	282.6
77.5°	217.5	227.5	232.5	225.0	222.5
80°	160.0	170.0	172.5	165.0	162.5
82.5°	107.5	117.5	117.5	112.5	107.5
85°	67.5	70.0	65.0	57.5	60.0
87.5°	30.0	27.5	22.5	15.0	15.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)