

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: P220256

Luminaire Tested: **Z3-WL-4L35-LD5-UNV-24**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220256
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35865)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: Z3-WL-4L35-LD5-UNV-24
Description: CLASS Z3 2X4 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: 6061.6 lumens
Efficiency: N/A
Efficacy: 101.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.31 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

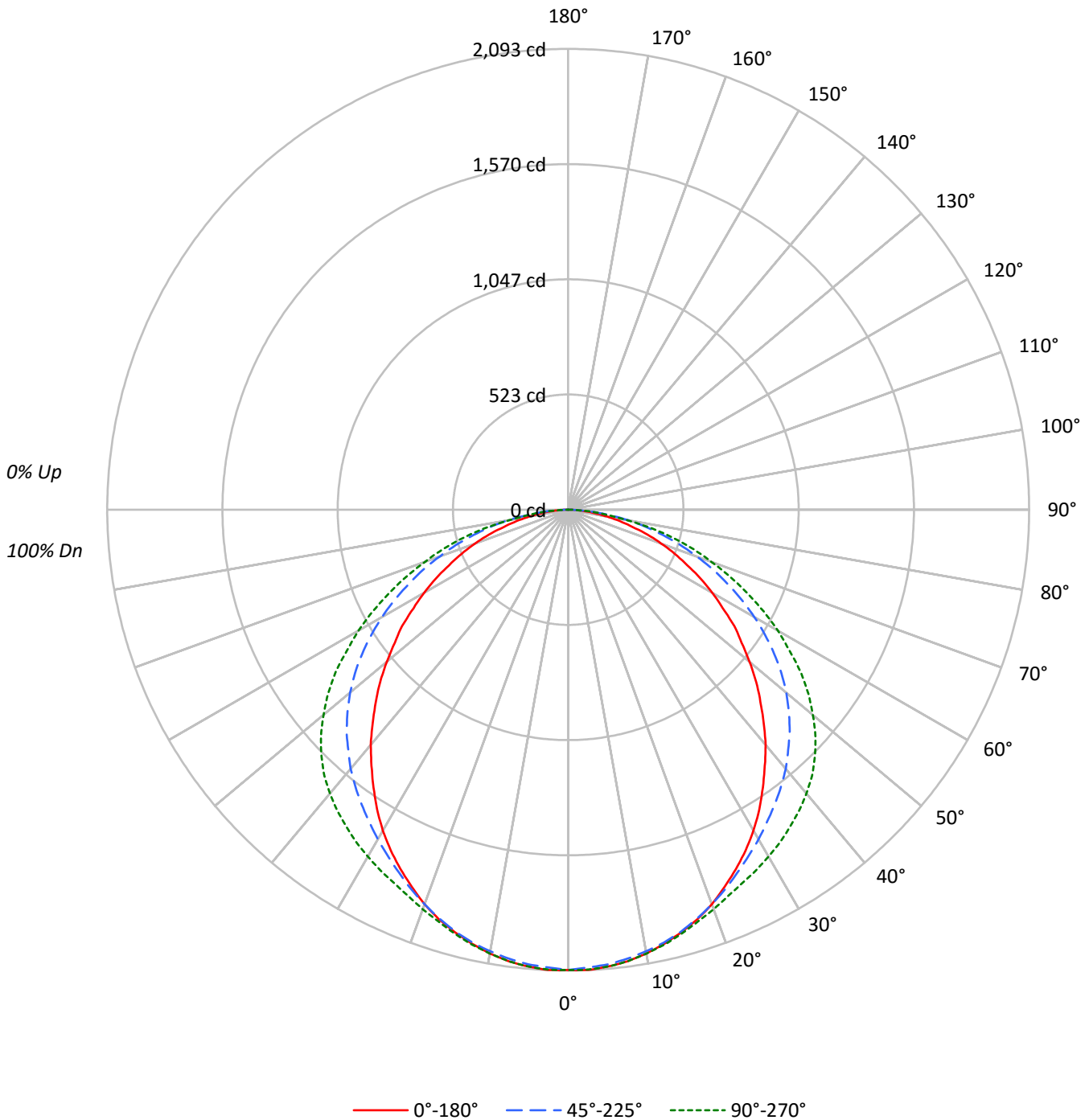
Input Watts (W): 59.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83
2	98	90	83	77	96	88	82	76	85	79	74	81	77	73	78	74	71	69
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	46	57	50	45	55	49	45	42
6	69	56	47	40	67	55	46	40	53	45	40	51	45	39	50	44	39	37
7	64	51	42	36	63	50	41	35	48	41	35	47	40	35	45	39	35	33
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	38	30	26	37	30	25	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2813	2813	2813
5°	2813	2800	2813
10°	2796	2783	2796
15°	2768	2762	2776
20°	2730	2730	2765
25°	2673	2700	2777
30°	2614	2686	2826
35°	2530	2685	2885
40°	2449	2699	2956
45°	2349	2707	3015
50°	2249	2705	3036
55°	2159	2680	3027
60°	2035	2627	2961
65°	1898	2542	2854
70°	1771	2440	2723
75°	1570	2309	2559
80°	1380	2155	2046
85°	1173	1698	1667



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	197.4	3.3
10°-20°	560.8	9.3
20°-30°	844.4	13.9
30°-40°	1028.8	17.0
40°-50°	1090.6	18.0
50°-60°	1002.3	16.5
60°-70°	767.8	12.7
70°-80°	448.7	7.4
80°-90°	121.0	2.0
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°	1602.5	26.4
0°-40°	2631.3	43.4
0°-60°	4724.1	77.9
0°-90°	6061.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6061.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2091	2091	2091	2091	2091	
5°	2083	2079	2073	2083	2083	198
15°	1987	1987	1983	1993	1993	560
25°	1801	1809	1819	1857	1871	830
35°	1541	1561	1635	1725	1757	964
45°	1234	1282	1423	1545	1585	953
55°	920	992	1142	1254	1290	818
65°	596	674	798	880	896	594
75°	302	370	444	488	492	325
85°	76	106	110	112	108	87
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2090.8	2090.8	2090.8	2090.8	2090.8
2.5°	2092.8	2088.8	2080.8	2090.8	2090.8
5°	2082.8	2078.8	2072.8	2082.8	2082.8
7.5°	2068.8	2064.8	2056.8	2068.8	2068.8
10°	2046.8	2044.8	2036.8	2048.8	2046.8
12.5°	2018.8	2018.8	2012.8	2022.8	2022.8
15°	1986.8	1986.8	1982.8	1992.8	1992.8
17.5°	1950.8	1950.8	1946.8	1960.8	1960.8
20°	1906.8	1902.8	1906.8	1926.8	1930.8
22.5°	1854.7	1856.7	1864.8	1890.8	1898.8
25°	1800.7	1808.7	1818.7	1856.7	1870.8
27.5°	1744.7	1752.7	1772.7	1826.7	1846.7
30°	1682.7	1692.7	1728.7	1794.7	1818.7
32.5°	1614.7	1630.7	1680.7	1762.7	1790.7
35°	1540.6	1560.6	1634.7	1724.7	1756.7
37.5°	1466.6	1494.6	1586.6	1688.7	1722.7
40°	1394.6	1424.6	1536.6	1646.7	1682.7
42.5°	1314.5	1354.5	1478.6	1596.6	1638.7
45°	1234.5	1282.5	1422.6	1544.6	1584.6
47.5°	1158.5	1210.5	1358.5	1484.6	1522.6
50°	1074.4	1142.5	1292.5	1412.6	1450.6
52.5°	992.4	1066.4	1220.5	1342.5	1374.6
55°	920.4	992.4	1142.5	1254.5	1290.5
57.5°	832.3	918.4	1060.4	1166.5	1190.5
60°	756.3	830.3	976.4	1074.4	1100.4
62.5°	678.3	758.3	890.4	974.4	1000.4
65°	596.2	674.3	798.3	880.4	896.4
67.5°	524.2	600.2	714.3	776.3	796.3
70°	450.2	516.2	620.3	682.3	692.3
72.5°	378.2	444.2	534.2	582.2	596.2
75°	302.1	370.1	444.2	488.2	492.2
77.5°	240.1	298.1	362.1	386.2	388.2
80°	178.1	230.1	278.1	276.1	264.1
82.5°	122.0	162.1	188.1	184.1	176.1
85°	76.0	106.0	110.0	112.0	108.0
87.5°	34.0	42.0	46.0	46.0	44.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)