

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: P220037

Luminaire Tested: **Z3-WD-5L35-LD5-UNV-14**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220037
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-5L35-LD5-UNV-14
Description: CLASS Z3 1X4 RECESSED LED LUMIANIRE
WITH A CLEAR SMOOTH ROUND LENS & ROUND PERF INLAY
Light Source: (168) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

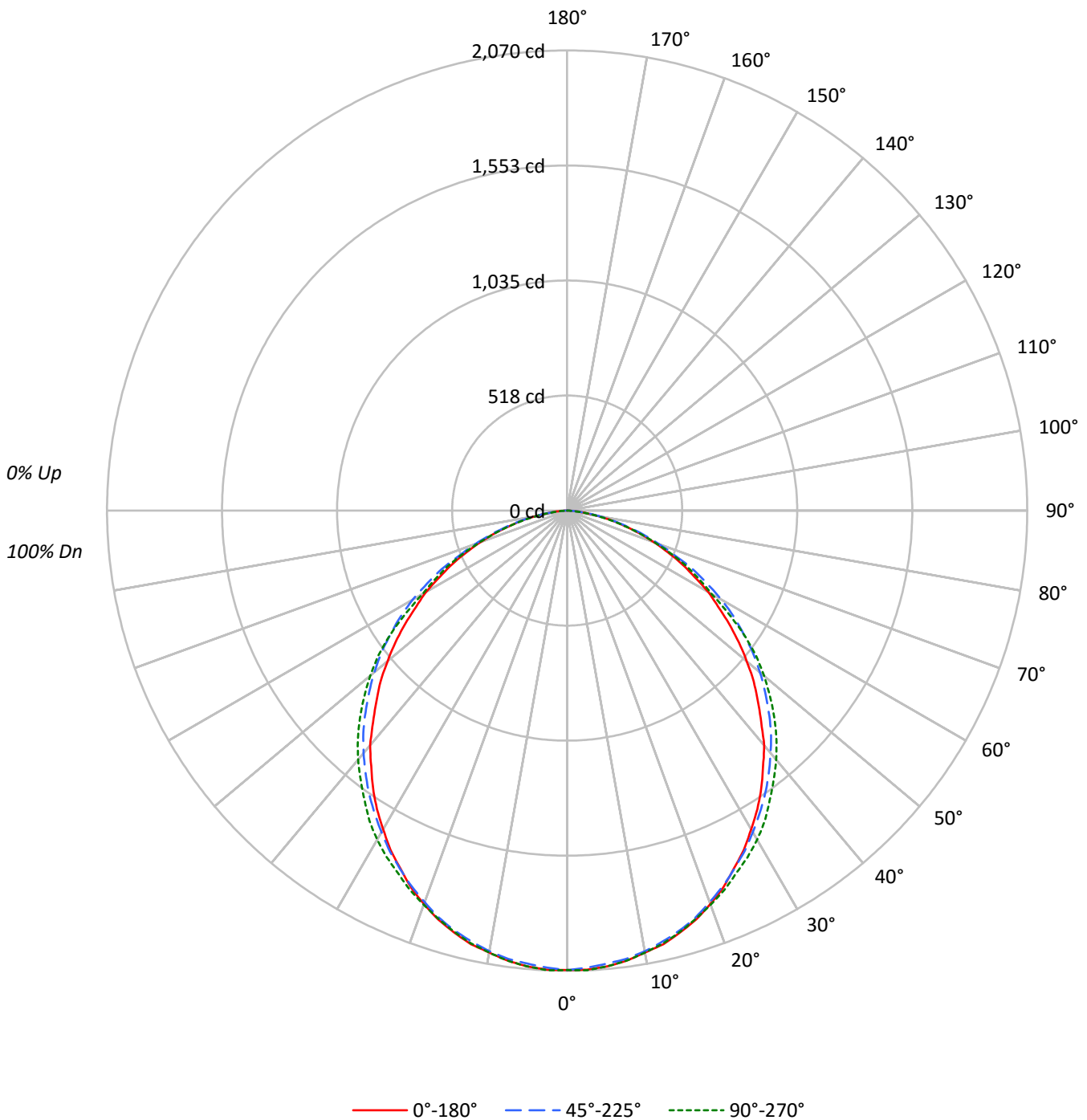
Lumens per Lamp: N/A
Luminaire Lumens: 5326.2 lumens
Efficiency: N/A
Efficacy: 98.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.23 / 1.33
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 54
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°	5562	5562	5562
5°	5559	5527	5559
10°	5516	5500	5516
15°	5473	5448	5465
20°	5394	5368	5403
25°	5272	5281	5343
30°	5143	5190	5312
35°	5004	5102	5221
40°	4844	5002	5139
45°	4619	4882	5019
50°	4415	4742	4842
55°	4172	4553	4553
60°	3945	4317	4042
65°	3635	3960	3768
70°	3262	3451	3309
75°	2780	2936	2780
80°	2188	2281	2142
85°	1392	1392	1115



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	195.0	3.7
10°-20°	552.7	10.4
20°-30°	822.8	15.4
30°-40°	972.7	18.3
40°-50°	982.3	18.4
50°-60°	849.2	15.9
60°-70°	592.8	11.1
70°-80°	299.1	5.6
80°-90°	59.6	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°	1570.6	29.5
0°-40°	2543.3	47.8
0°-60°	4374.8	82.1
0°-90°	5326.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5326.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2067	2067	2067	2067	2067	
5°	2058	2055	2046	2058	2058	195
15°	1965	1962	1956	1962	1962	554
25°	1776	1778	1778	1796	1800	819
35°	1523	1529	1553	1583	1589	951
45°	1214	1232	1283	1316	1319	938
55°	889	928	970	982	970	796
65°	571	607	622	589	592	564
75°	267	294	282	273	267	288
85°	45	51	45	39	36	60
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2066.9	2066.9	2066.9	2066.9	2066.9
2.5°	2066.9	2066.9	2057.9	2069.9	2069.9
5°	2057.9	2054.9	2045.9	2057.9	2057.9
7.5°	2042.8	2039.8	2033.8	2042.8	2042.8
10°	2018.8	2018.8	2012.8	2021.8	2018.8
12.5°	1997.8	1994.8	1985.8	1994.8	1994.8
15°	1964.7	1961.7	1955.7	1961.7	1961.7
17.5°	1928.7	1922.7	1919.7	1925.7	1925.7
20°	1883.6	1880.6	1874.6	1886.6	1886.6
22.5°	1835.6	1829.5	1829.5	1841.6	1847.6
25°	1775.5	1778.5	1778.5	1796.5	1799.5
27.5°	1721.4	1721.4	1727.4	1748.4	1757.4
30°	1655.3	1661.3	1670.3	1697.4	1709.4
32.5°	1592.2	1601.2	1613.2	1646.3	1655.3
35°	1523.1	1529.1	1553.2	1583.2	1589.2
37.5°	1448.0	1454.0	1490.1	1523.1	1526.1
40°	1378.9	1381.9	1424.0	1454.0	1463.0
42.5°	1291.8	1312.8	1357.9	1387.9	1393.9
45°	1213.7	1231.7	1282.8	1315.8	1318.8
47.5°	1138.6	1156.6	1207.7	1234.7	1237.7
50°	1054.5	1078.5	1132.6	1153.6	1156.6
52.5°	973.4	1003.4	1054.5	1072.5	1069.5
55°	889.2	928.3	970.4	982.4	970.4
57.5°	805.1	850.2	889.2	886.2	859.2
60°	733.0	766.1	802.1	775.1	751.0
62.5°	645.9	688.0	709.0	672.9	669.9
65°	570.8	606.8	621.9	588.8	591.8
67.5°	489.7	525.7	519.7	510.7	504.7
70°	414.6	450.6	438.6	426.6	420.6
72.5°	342.5	372.5	360.5	351.5	342.5
75°	267.4	294.4	282.4	273.4	267.4
77.5°	204.3	219.3	213.3	204.3	198.3
80°	141.2	156.2	147.2	138.2	138.2
82.5°	87.1	99.1	90.1	84.1	81.1
85°	45.1	51.1	45.1	39.1	36.1
87.5°	18.0	18.0	12.0	9.0	9.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)