

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: P220042

Luminaire Tested: **Z3-WD-5L40-LD5-UNV-14**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220042
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-5L40-LD5-UNV-14
Description: CLASS Z3 1X4 RECESSED LED LUMIANIRE
WITH A CLEAR SMOOTH ROUND LENS & ROUND PERF INLAY
Light Source: (168) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5628.1 lumens
Efficiency: N/A
Efficacy: 104.2 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

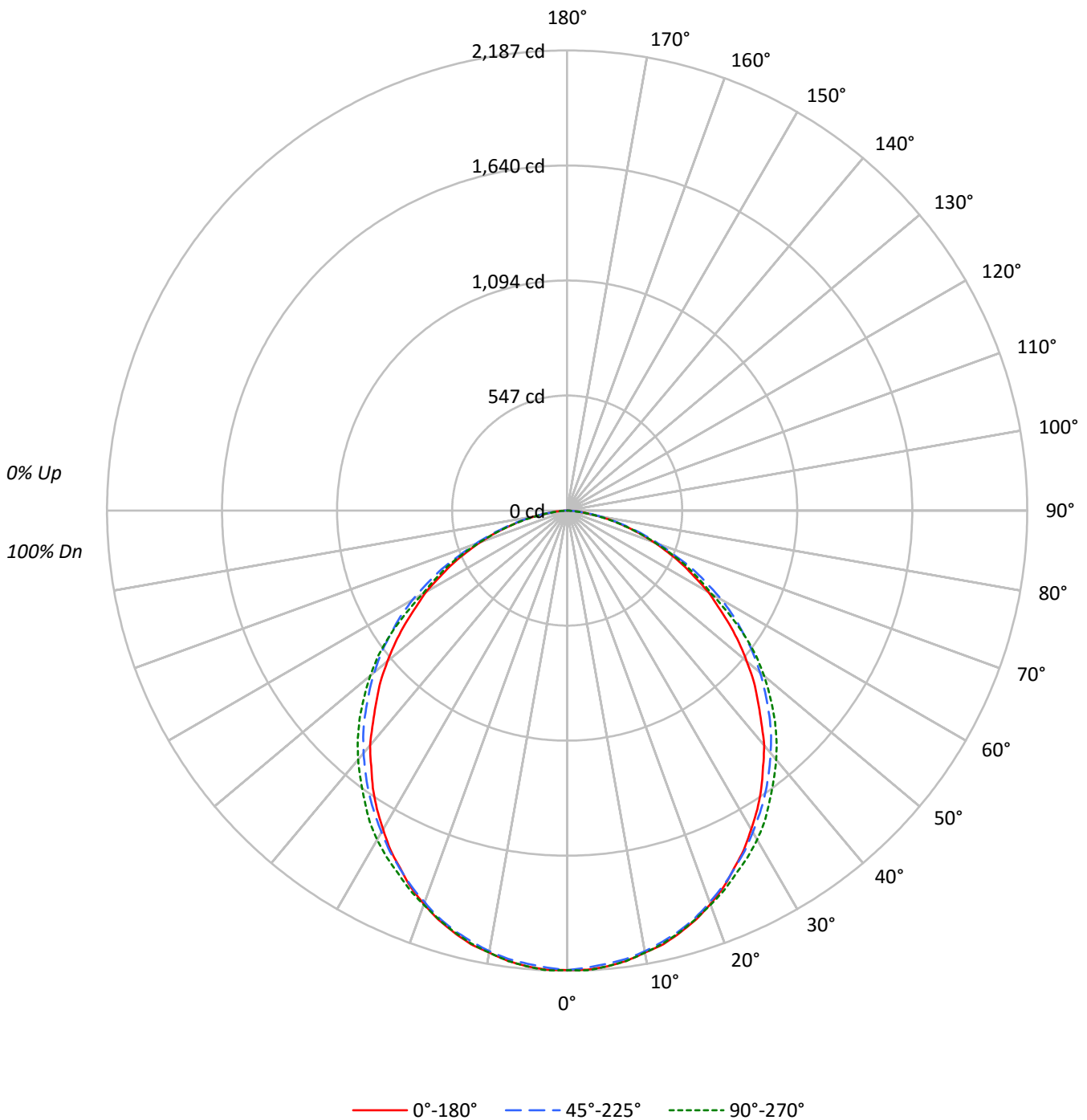
Input Watts (W): 54
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85					85			
2	100	92	85	80	97	90	84	79	87	81	77	83	79	75	80	77	74	72					72			
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61					61			
4	84	72	63	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52					52			
5	77	65	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45					45			
6	71	58	49	43	69	57	49	43	55	48	43	54	47	42	52	46	42	40					40			
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35					35			
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	32					32			
9	58	44	36	31	56	44	36	31	43	36	31	42	35	30	41	35	30	28					28			
10	54	41	33	28	53	40	33	28	39	33	28	39	32	28	38	32	28	26					26			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5877	5877	5877
5°	5874	5840	5874
10°	5829	5812	5829
15°	5784	5757	5775
20°	5700	5673	5709
25°	5570	5580	5646
30°	5435	5484	5613
35°	5287	5391	5517
40°	5119	5286	5431
45°	4881	5159	5304
50°	4665	5010	5117
55°	4408	4811	4811
60°	4169	4562	4271
65°	3840	4184	3982
70°	3447	3647	3496
75°	2937	3103	2937
80°	2312	2410	2263
85°	1470	1470	1176



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	206.0	3.7
10°-20°	584.0	10.4
20°-30°	869.5	15.4
30°-40°	1027.9	18.3
40°-50°	1038.0	18.4
50°-60°	897.4	15.9
60°-70°	626.4	11.1
70°-80°	316.0	5.6
80°-90°	62.9	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°	1659.6	29.5
0°-40°	2687.4	47.8
0°-60°	4622.8	82.1
0°-90°	5628.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5628.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2184	2184	2184	2184	2184	
5°	2174	2171	2162	2174	2174	206
15°	2076	2073	2067	2073	2073	585
25°	1876	1879	1879	1898	1902	865
35°	1610	1616	1641	1673	1679	1005
45°	1282	1302	1356	1390	1394	991
55°	940	981	1025	1038	1025	841
65°	603	641	657	622	625	596
75°	282	311	298	289	282	304
85°	48	54	48	41	38	63
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2184.0	2184.0	2184.0	2184.0	2184.0
2.5°	2184.0	2184.0	2174.5	2187.2	2187.2
5°	2174.5	2171.3	2161.8	2174.5	2174.5
7.5°	2158.6	2155.5	2149.1	2158.6	2158.6
10°	2133.2	2133.2	2126.9	2136.4	2133.2
12.5°	2111.0	2107.8	2098.3	2107.8	2107.8
15°	2076.1	2072.9	2066.6	2072.9	2072.9
17.5°	2038.0	2031.7	2028.5	2034.8	2034.8
20°	1990.4	1987.2	1980.9	1993.6	1993.6
22.5°	1939.6	1933.2	1933.2	1945.9	1952.3
25°	1876.1	1879.3	1879.3	1898.3	1901.5
27.5°	1819.0	1819.0	1825.3	1847.5	1857.1
30°	1749.1	1755.5	1765.0	1793.6	1806.3
32.5°	1682.5	1692.0	1704.7	1739.6	1749.1
35°	1609.5	1615.8	1641.2	1672.9	1679.3
37.5°	1530.1	1536.4	1574.5	1609.5	1612.6
40°	1457.1	1460.3	1504.7	1536.4	1546.0
42.5°	1365.0	1387.2	1434.9	1466.6	1473.0
45°	1282.5	1301.5	1355.5	1390.4	1393.6
47.5°	1203.1	1222.2	1276.1	1304.7	1307.9
50°	1114.2	1139.6	1196.8	1219.0	1222.2
52.5°	1028.5	1060.3	1114.2	1133.3	1130.1
55°	939.6	980.9	1025.4	1038.0	1025.4
57.5°	850.8	898.4	939.6	936.5	907.9
60°	774.6	809.5	847.6	819.0	793.6
62.5°	682.5	727.0	749.2	711.1	707.9
65°	603.1	641.2	657.1	622.2	625.4
67.5°	517.4	555.5	549.2	539.7	533.3
70°	438.1	476.2	463.5	450.8	444.4
72.5°	361.9	393.6	380.9	371.4	361.9
75°	282.5	311.1	298.4	288.9	282.5
77.5°	215.9	231.7	225.4	215.9	209.5
80°	149.2	165.1	155.5	146.0	146.0
82.5°	92.1	104.8	95.2	88.9	85.7
85°	47.6	54.0	47.6	41.3	38.1
87.5°	19.0	19.0	12.7	9.5	9.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)