

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: P220056

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220056
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35876)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: Z3-WN-5L40-LD5-UNV-14
Description: CLASS Z3 1X4 RECESSED LED LUMIANIRE
WITH A CLEAR SMOOTH ROUND LENS & NANO-PRISM INLAY
Light Source: (168) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5979.9 lumens
Efficiency: N/A
Efficacy: 110.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.23 / 1.33
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

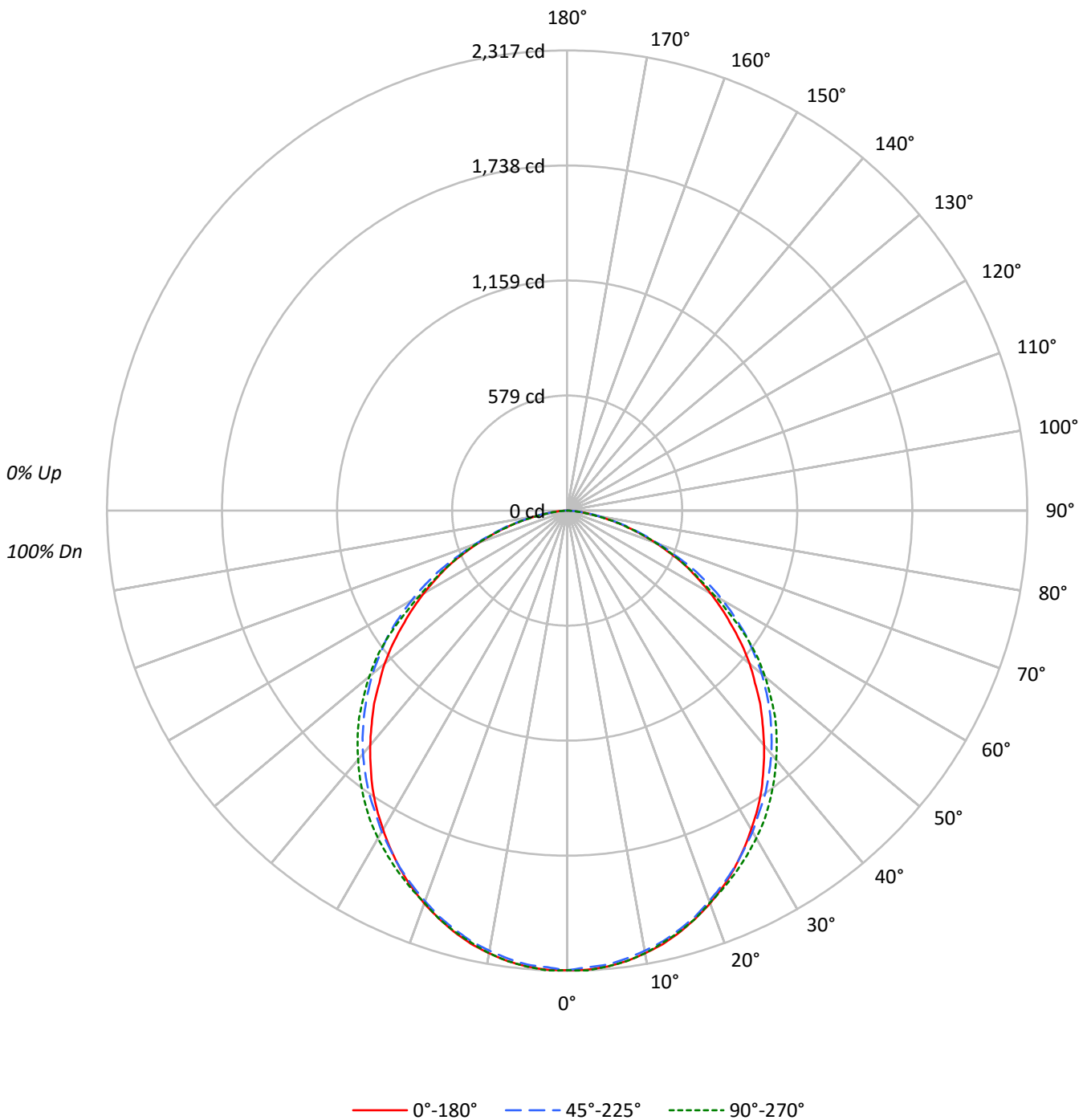
Input Watts (W): 54
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	64	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	42	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	31				31
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	35	30	28				28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26				26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6227	6227	6227
5°	6226	6200	6226
10°	6185	6150	6185
15°	6120	6084	6111
20°	6027	5991	6018
25°	5910	5900	5966
30°	5761	5800	5918
35°	5611	5715	5850
40°	5420	5620	5754
45°	5231	5497	5642
50°	5023	5356	5449
55°	4751	5168	5138
60°	4493	4869	4613
65°	4204	4467	4225
70°	3722	3847	3747
75°	3136	3300	3136
80°	2410	2509	2263
85°	1470	1470	1275



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	218.4	3.7
10°-20°	617.9	10.3
20°-30°	919.3	15.4
30°-40°	1089.0	18.2
40°-50°	1105.2	18.5
50°-60°	961.7	16.1
60°-70°	672.2	11.2
70°-80°	332.1	5.6
80°-90°	64.0	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°	1755.7	29.4
0°-40°	2844.7	47.6
0°-60°	4911.5	82.1
0°-90°	5979.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5979.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2314	2314	2314	2314	2314	
5°	2305	2305	2295	2308	2305	219
15°	2197	2197	2184	2197	2194	619
25°	1990	1990	1987	2003	2009	916
35°	1708	1711	1740	1774	1781	1067
45°	1374	1390	1444	1473	1482	1058
55°	1013	1057	1102	1105	1095	908
65°	660	689	702	670	664	648
75°	302	324	317	302	302	322
85°	48	54	48	44	41	63
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2314.2	2314.2	2314.2	2314.2	2314.2
2.5°	2314.2	2314.2	2301.5	2314.2	2317.4
5°	2304.7	2304.7	2295.1	2307.8	2304.7
7.5°	2288.8	2285.6	2276.1	2285.6	2288.8
10°	2263.4	2260.2	2250.7	2263.4	2263.4
12.5°	2234.8	2231.6	2222.1	2231.6	2228.5
15°	2196.7	2196.7	2184.0	2196.7	2193.6
17.5°	2152.3	2152.3	2142.8	2149.1	2152.3
20°	2104.7	2104.7	2092.0	2107.8	2101.5
22.5°	2050.7	2050.7	2041.2	2057.1	2057.1
25°	1990.4	1990.4	1987.2	2003.1	2009.4
27.5°	1923.7	1926.9	1926.9	1952.3	1958.6
30°	1853.9	1857.1	1866.6	1898.3	1904.7
32.5°	1784.0	1787.2	1799.9	1838.0	1847.5
35°	1707.9	1711.0	1739.6	1774.5	1780.9
37.5°	1625.3	1634.8	1669.8	1704.7	1711.0
40°	1542.8	1552.3	1599.9	1628.5	1638.0
42.5°	1457.1	1476.1	1523.7	1552.3	1561.8
45°	1374.5	1390.4	1444.4	1473.0	1482.5
47.5°	1282.5	1304.7	1361.8	1390.4	1390.4
50°	1199.9	1225.3	1279.3	1301.5	1301.5
52.5°	1107.9	1142.8	1187.2	1212.6	1206.3
55°	1012.7	1057.1	1101.5	1104.7	1095.2
57.5°	923.8	965.0	1003.1	1000.0	971.4
60°	834.9	869.8	904.7	879.3	857.1
62.5°	742.8	780.9	806.3	765.0	755.5
65°	660.3	688.9	701.6	669.8	663.5
67.5°	561.9	596.8	587.3	577.8	571.4
70°	473.0	501.6	488.9	479.3	476.2
72.5°	384.1	412.7	400.0	393.6	384.1
75°	301.6	323.8	317.4	301.6	301.6
77.5°	222.2	241.3	231.7	225.4	222.2
80°	155.5	165.1	161.9	152.4	146.0
82.5°	92.1	104.8	98.4	92.1	88.9
85°	47.6	54.0	47.6	44.4	41.3
87.5°	15.9	15.9	12.7	9.5	9.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)