

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: P220055

Luminaire Tested: **Z3-WN-4L40-LD5-UNV-14**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220055
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-4L40-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: 5033.8 lumens
Efficiency: N/A
Efficacy: 116.3 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

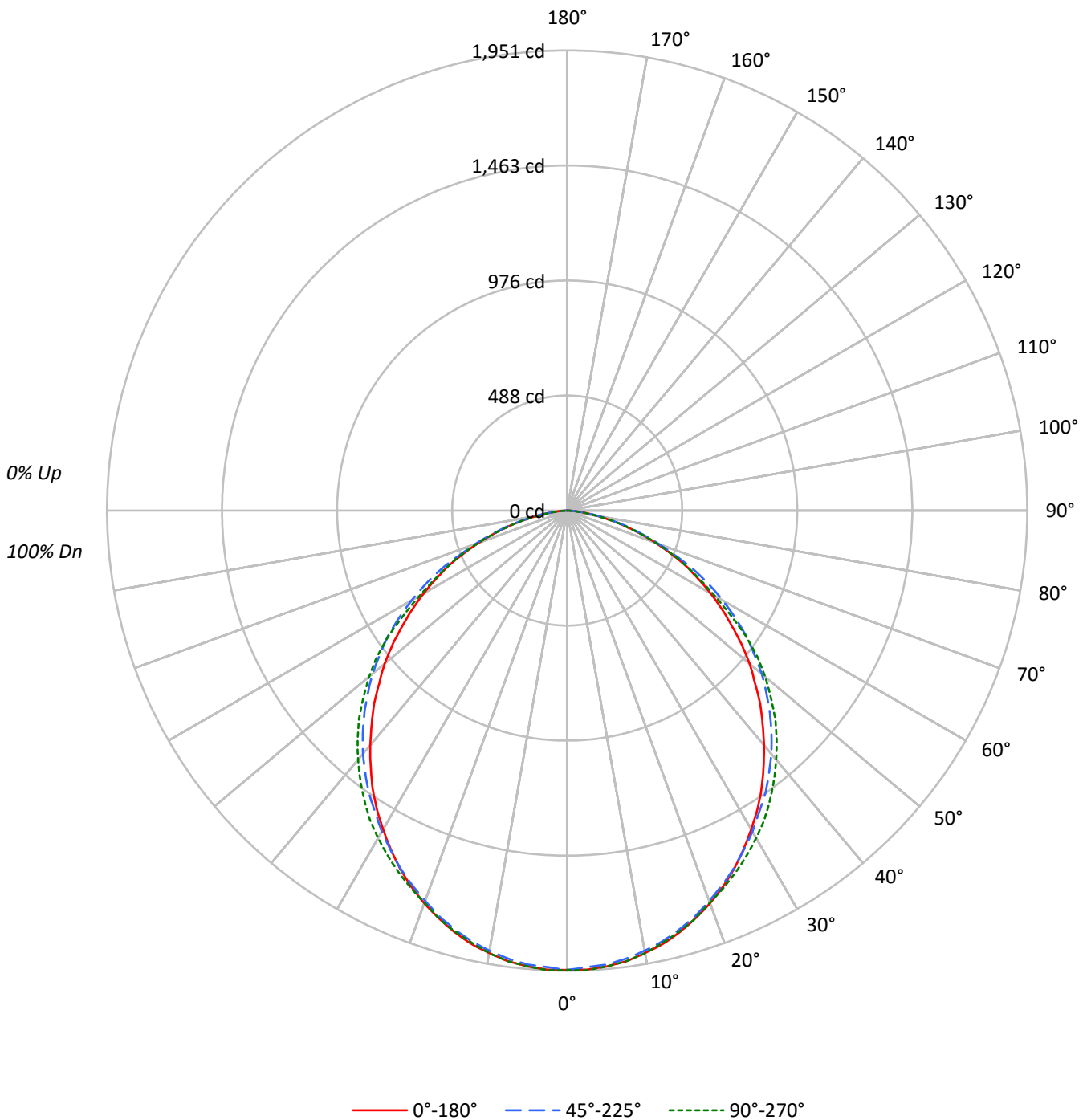
Input Watts (W): 43.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	64	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	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	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	35	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°	5242	5242	5242
5°	5240	5219	5240
10°	5206	5177	5206
15°	5152	5122	5144
20°	5074	5043	5066
25°	4975	4967	5022
30°	4849	4882	4982
35°	4723	4811	4925
40°	4562	4731	4844
45°	4403	4627	4749
50°	4229	4508	4587
55°	3999	4351	4325
60°	3782	4099	3883
65°	3539	3761	3556
70°	3133	3238	3153
75°	2640	2778	2640
80°	2029	2112	1905
85°	1238	1238	1071



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.8	3.7
10°-20°	520.2	10.3
20°-30°	773.9	15.4
30°-40°	916.7	18.2
40°-50°	930.3	18.5
50°-60°	809.6	16.1
60°-70°	565.8	11.2
70°-80°	279.6	5.6
80°-90°	53.9	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°	1477.9	29.4
0°-40°	2394.6	47.6
0°-60°	4134.5	82.1
0°-90°	5033.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5033.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1948	1948	1948	1948	1948	
5°	1940	1940	1932	1943	1940	184
15°	1849	1849	1838	1849	1846	521
25°	1676	1676	1673	1686	1692	771
35°	1438	1440	1464	1494	1499	898
45°	1157	1170	1216	1240	1248	891
55°	852	890	927	930	922	764
65°	556	580	591	564	558	545
75°	254	273	267	254	254	271
85°	40	45	40	37	35	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1948.0	1948.0	1948.0	1948.0	1948.0
2.5°	1948.0	1948.0	1937.4	1948.0	1950.7
5°	1940.0	1940.0	1932.0	1942.7	1940.0
7.5°	1926.7	1924.0	1916.0	1924.0	1926.7
10°	1905.3	1902.6	1894.6	1905.3	1905.3
12.5°	1881.2	1878.6	1870.6	1878.6	1875.9
15°	1849.2	1849.2	1838.5	1849.2	1846.5
17.5°	1811.8	1811.8	1803.7	1809.1	1811.8
20°	1771.7	1771.7	1761.0	1774.4	1769.0
22.5°	1726.3	1726.3	1718.2	1731.6	1731.6
25°	1675.5	1675.5	1672.8	1686.2	1691.5
27.5°	1619.4	1622.0	1622.0	1643.4	1648.8
30°	1560.6	1563.2	1571.3	1598.0	1603.3
32.5°	1501.8	1504.5	1515.1	1547.2	1555.2
35°	1437.7	1440.3	1464.4	1493.8	1499.1
37.5°	1368.2	1376.2	1405.6	1435.0	1440.3
40°	1298.7	1306.7	1346.8	1370.8	1378.9
42.5°	1226.5	1242.6	1282.7	1306.7	1314.7
45°	1157.1	1170.4	1215.9	1239.9	1247.9
47.5°	1079.6	1098.3	1146.4	1170.4	1170.4
50°	1010.1	1031.5	1076.9	1095.6	1095.6
52.5°	932.6	962.0	999.4	1020.8	1015.4
55°	852.4	889.8	927.3	929.9	921.9
57.5°	777.6	812.4	844.4	841.7	817.7
60°	702.8	732.2	761.6	740.2	721.5
62.5°	625.3	657.4	678.7	644.0	636.0
65°	555.8	579.9	590.6	563.8	558.5
67.5°	473.0	502.4	494.4	486.3	481.0
70°	398.2	422.2	411.5	403.5	400.8
72.5°	323.3	347.4	336.7	331.4	323.3
75°	253.9	272.6	267.2	253.9	253.9
77.5°	187.1	203.1	195.1	189.7	187.1
80°	130.9	139.0	136.3	128.3	122.9
82.5°	77.5	88.2	82.8	77.5	74.8
85°	40.1	45.4	40.1	37.4	34.7
87.5°	13.4	13.4	10.7	8.0	8.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)