

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: P220052

Luminaire Tested: **Z3-WN-1L40-LD5-UNV-14**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220052
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-1L40-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: 2013.1 lumens
Efficiency: N/A
Efficacy: 127.4 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

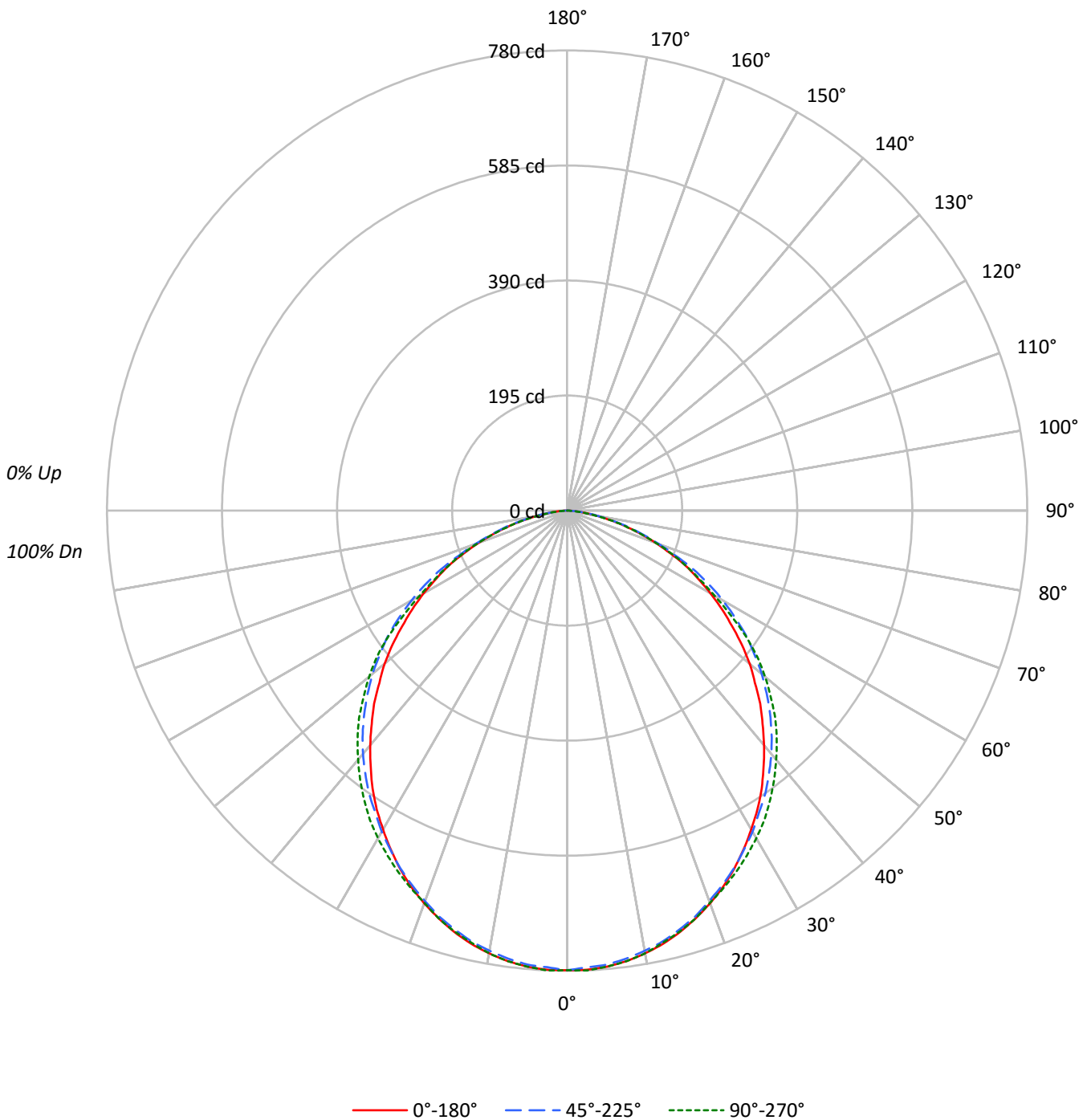
Input Watts (W): 15.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2097	2097	2097
5°	2096	2087	2096
10°	2082	2070	2082
15°	2060	2048	2057
20°	2029	2017	2026
25°	1990	1986	2009
30°	1939	1953	1992
35°	1889	1924	1969
40°	1825	1892	1937
45°	1761	1850	1899
50°	1691	1803	1834
55°	1599	1740	1730
60°	1513	1639	1553
65°	1415	1504	1422
70°	1253	1295	1261
75°	1055	1111	1055
80°	812	845	762
85°	494	494	429



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.5	3.7
10°-20°	208.0	10.3
20°-30°	309.5	15.4
30°-40°	366.6	18.2
40°-50°	372.1	18.5
50°-60°	323.8	16.1
60°-70°	226.3	11.2
70°-80°	111.8	5.6
80°-90°	21.6	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°	591.0	29.4
0°-40°	957.7	47.6
0°-60°	1653.5	82.1
0°-90°	2013.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2013.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	779	779	779	779	779	
5°	776	776	773	777	776	74
15°	740	740	735	740	738	208
25°	670	670	669	674	676	308
35°	575	576	586	597	600	359
45°	463	468	486	496	499	356
55°	341	356	371	372	369	306
65°	222	232	236	226	223	218
75°	102	109	107	102	102	108
85°	16	18	16	15	14	21
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	779.1	779.1	779.1	779.1	779.1
2.5°	779.1	779.1	774.8	779.1	780.1
5°	775.9	775.9	772.6	776.9	775.9
7.5°	770.5	769.4	766.2	769.4	770.5
10°	762.0	760.9	757.7	762.0	762.0
12.5°	752.3	751.3	748.1	751.3	750.2
15°	739.5	739.5	735.2	739.5	738.5
17.5°	724.6	724.6	721.4	723.5	724.6
20°	708.5	708.5	704.3	709.6	707.5
22.5°	690.4	690.4	687.2	692.5	692.5
25°	670.1	670.1	669.0	674.3	676.5
27.5°	647.6	648.7	648.7	657.2	659.4
30°	624.1	625.2	628.4	639.1	641.2
32.5°	600.6	601.7	605.9	618.8	622.0
35°	574.9	576.0	585.6	597.4	599.5
37.5°	547.2	550.4	562.1	573.9	576.0
40°	519.4	522.6	538.6	548.2	551.4
42.5°	490.5	496.9	513.0	522.6	525.8
45°	462.7	468.1	486.2	495.9	499.1
47.5°	431.7	439.2	458.5	468.1	468.1
50°	404.0	412.5	430.7	438.2	438.2
52.5°	373.0	384.7	399.7	408.2	406.1
55°	340.9	355.9	370.8	371.9	368.7
57.5°	311.0	324.9	337.7	336.6	327.0
60°	281.1	292.8	304.6	296.0	288.5
62.5°	250.1	262.9	271.4	257.5	254.3
65°	222.3	231.9	236.2	225.5	223.4
67.5°	189.2	200.9	197.7	194.5	192.4
70°	159.2	168.8	164.6	161.4	160.3
72.5°	129.3	138.9	134.7	132.5	129.3
75°	101.5	109.0	106.9	101.5	101.5
77.5°	74.8	81.2	78.0	75.9	74.8
80°	52.4	55.6	54.5	51.3	49.2
82.5°	31.0	35.3	33.1	31.0	29.9
85°	16.0	18.2	16.0	15.0	13.9
87.5°	5.3	5.3	4.3	3.2	3.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)