

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: P220050

Luminaire Tested: **Z3-WN-4L35-LD5-UNV-14**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220050
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-4L35-LD5-UNV-14
Description: CLASS Z3 1X4 RECESSED LED LUMIANIRE
WITH A CLEAR SMOOTH ROUND LENS & NANO-PRISM INLAY
Light Source: (168) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4763.8 lumens
Efficiency: N/A
Efficacy: 110.0 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

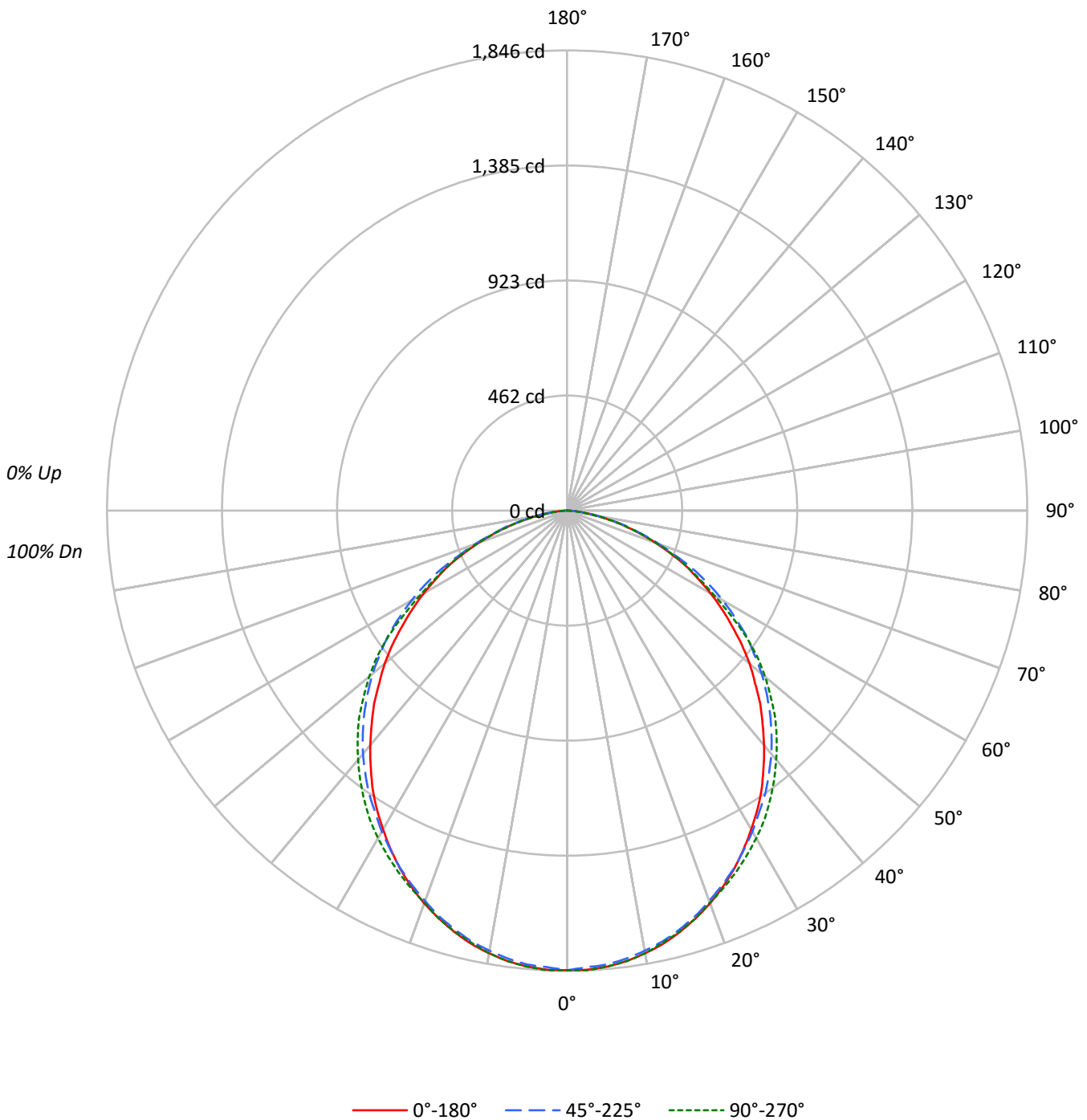
Input Watts (W): 43.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4961	4961	4961
5°	4960	4939	4960
10°	4927	4899	4927
15°	4875	4847	4868
20°	4801	4772	4794
25°	4708	4700	4753
30°	4589	4621	4715
35°	4469	4552	4661
40°	4317	4477	4584
45°	4167	4379	4494
50°	4002	4266	4340
55°	3785	4117	4093
60°	3580	3879	3675
65°	3349	3559	3365
70°	2965	3064	2984
75°	2497	2629	2497
80°	1920	1999	1802
85°	1170	1170	1016



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.0	3.7
10°-20°	492.3	10.3
20°-30°	732.4	15.4
30°-40°	867.5	18.2
40°-50°	880.4	18.5
50°-60°	766.1	16.1
60°-70°	535.5	11.2
70°-80°	264.6	5.6
80°-90°	51.0	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°	1398.6	29.4
0°-40°	2266.2	47.6
0°-60°	3912.7	82.1
0°-90°	4763.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4763.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1844	1844	1844	1844	1844	
5°	1836	1836	1828	1838	1836	174
15°	1750	1750	1740	1750	1748	493
25°	1586	1586	1583	1596	1601	730
35°	1360	1363	1386	1414	1419	850
45°	1095	1108	1151	1173	1181	843
55°	807	842	878	880	872	723
65°	526	549	559	534	528	516
75°	240	258	253	240	240	256
85°	38	43	38	35	33	50
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1843.6	1843.6	1843.6	1843.6	1843.6
2.5°	1843.6	1843.6	1833.4	1843.6	1846.1
5°	1836.0	1836.0	1828.4	1838.5	1836.0
7.5°	1823.3	1820.8	1813.2	1820.8	1823.3
10°	1803.1	1800.6	1793.0	1803.1	1803.1
12.5°	1780.3	1777.8	1770.2	1777.8	1775.3
15°	1750.0	1750.0	1739.9	1750.0	1747.5
17.5°	1714.6	1714.6	1707.0	1712.1	1714.6
20°	1676.6	1676.6	1666.5	1679.2	1674.1
22.5°	1633.7	1633.7	1626.1	1638.7	1638.7
25°	1585.6	1585.6	1583.1	1595.7	1600.8
27.5°	1532.5	1535.0	1535.0	1555.3	1560.3
30°	1476.9	1479.4	1487.0	1512.3	1517.3
32.5°	1421.2	1423.8	1433.9	1464.2	1471.8
35°	1360.5	1363.1	1385.8	1413.6	1418.7
37.5°	1294.8	1302.4	1330.2	1358.0	1363.1
40°	1229.0	1236.6	1274.6	1297.3	1304.9
42.5°	1160.8	1175.9	1213.9	1236.6	1244.2
45°	1095.0	1107.6	1150.6	1173.4	1181.0
47.5°	1021.7	1039.4	1084.9	1107.6	1107.6
50°	955.9	976.1	1019.1	1036.8	1036.8
52.5°	882.6	910.4	945.8	966.0	961.0
55°	806.7	842.1	877.5	880.1	872.5
57.5°	735.9	768.8	799.1	796.6	773.8
60°	665.1	692.9	720.7	700.5	682.8
62.5°	591.8	622.1	642.3	609.5	601.9
65°	526.0	548.8	558.9	533.6	528.5
67.5°	447.6	475.4	467.8	460.3	455.2
70°	376.8	399.6	389.4	381.9	379.3
72.5°	306.0	328.8	318.6	313.6	306.0
75°	240.2	257.9	252.9	240.2	240.2
77.5°	177.0	192.2	184.6	179.6	177.0
80°	123.9	131.5	129.0	121.4	116.3
82.5°	73.3	83.5	78.4	73.3	70.8
85°	37.9	43.0	37.9	35.4	32.9
87.5°	12.6	12.6	10.1	7.6	7.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)