

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: P220047

Luminaire Tested: **Z3-WN-1L35-LD5-UNV-14**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220047
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-1L35-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: 1905.1 lumens
Efficiency: N/A
Efficacy: 120.6 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

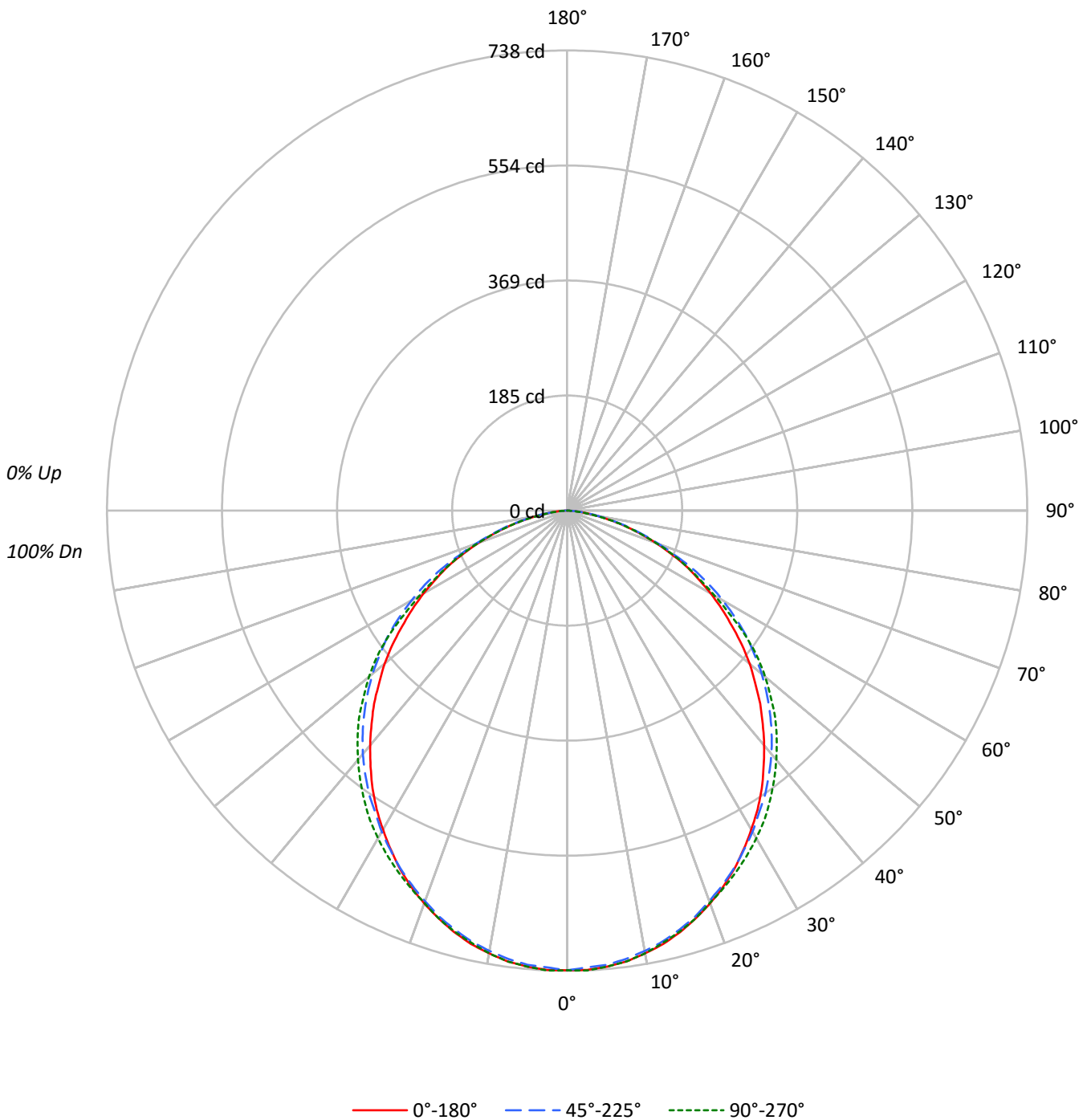
Input Watts (W): 15.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1984	1984	1984
5°	1983	1975	1983
10°	1970	1959	1970
15°	1950	1938	1947
20°	1920	1909	1917
25°	1883	1880	1901
30°	1835	1848	1885
35°	1787	1821	1864
40°	1727	1790	1833
45°	1666	1751	1797
50°	1600	1706	1736
55°	1514	1646	1637
60°	1432	1551	1470
65°	1340	1423	1346
70°	1186	1225	1194
75°	999	1051	999
80°	769	800	721
85°	469	469	404



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.6	3.7
10°-20°	196.9	10.3
20°-30°	292.9	15.4
30°-40°	346.9	18.2
40°-50°	352.1	18.5
50°-60°	306.4	16.1
60°-70°	214.1	11.2
70°-80°	105.8	5.6
80°-90°	20.4	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°	559.3	29.4
0°-40°	906.3	47.6
0°-60°	1564.8	82.1
0°-90°	1905.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1905.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	737	737	737	737	737	
5°	734	734	731	735	734	70
15°	700	700	696	700	699	197
25°	634	634	633	638	640	292
35°	544	545	554	565	567	340
45°	438	443	460	469	472	337
55°	323	337	351	352	349	289
65°	210	220	224	213	211	206
75°	96	103	101	96	96	103
85°	15	17	15	14	13	20
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	737.3	737.3	737.3	737.3	737.3
2.5°	737.3	737.3	733.2	737.3	738.3
5°	734.2	734.2	731.2	735.2	734.2
7.5°	729.2	728.2	725.1	728.2	729.2
10°	721.1	720.1	717.0	721.1	721.1
12.5°	712.0	711.0	707.9	711.0	710.0
15°	699.9	699.9	695.8	699.9	698.8
17.5°	685.7	685.7	682.7	684.7	685.7
20°	670.5	670.5	666.5	671.5	669.5
22.5°	653.3	653.3	650.3	655.4	655.4
25°	634.1	634.1	633.1	638.2	640.2
27.5°	612.9	613.9	613.9	622.0	624.0
30°	590.6	591.6	594.7	604.8	606.8
32.5°	568.4	569.4	573.4	585.6	588.6
35°	544.1	545.1	554.2	565.3	567.4
37.5°	517.8	520.8	532.0	543.1	545.1
40°	491.5	494.5	509.7	518.8	521.9
42.5°	464.2	470.3	485.4	494.5	497.6
45°	437.9	443.0	460.2	469.3	472.3
47.5°	408.6	415.7	433.9	443.0	443.0
50°	382.3	390.4	407.6	414.7	414.7
52.5°	353.0	364.1	378.2	386.3	384.3
55°	322.6	336.8	350.9	351.9	348.9
57.5°	294.3	307.4	319.6	318.6	309.5
60°	266.0	277.1	288.2	280.1	273.1
62.5°	236.7	248.8	256.9	243.7	240.7
65°	210.4	219.5	223.5	213.4	211.4
67.5°	179.0	190.1	187.1	184.1	182.0
70°	150.7	159.8	155.7	152.7	151.7
72.5°	122.4	131.5	127.4	125.4	122.4
75°	96.1	103.2	101.1	96.1	96.1
77.5°	70.8	76.9	73.8	71.8	70.8
80°	49.6	52.6	51.6	48.5	46.5
82.5°	29.3	33.4	31.4	29.3	28.3
85°	15.2	17.2	15.2	14.2	13.1
87.5°	5.1	5.1	4.0	3.0	3.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)