

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: P220033

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220033
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35875)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: Z3-WD-1L35-LD5-UNV-14
Description: CLASS Z3 1X4 RECESSED LED LUMIANIRE
WITH A CLEAR SMOOTH ROUND LENS & ROUND PERF INLAY
Light Source: (168) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1793.1 lumens
Efficiency: N/A
Efficacy: 113.5 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

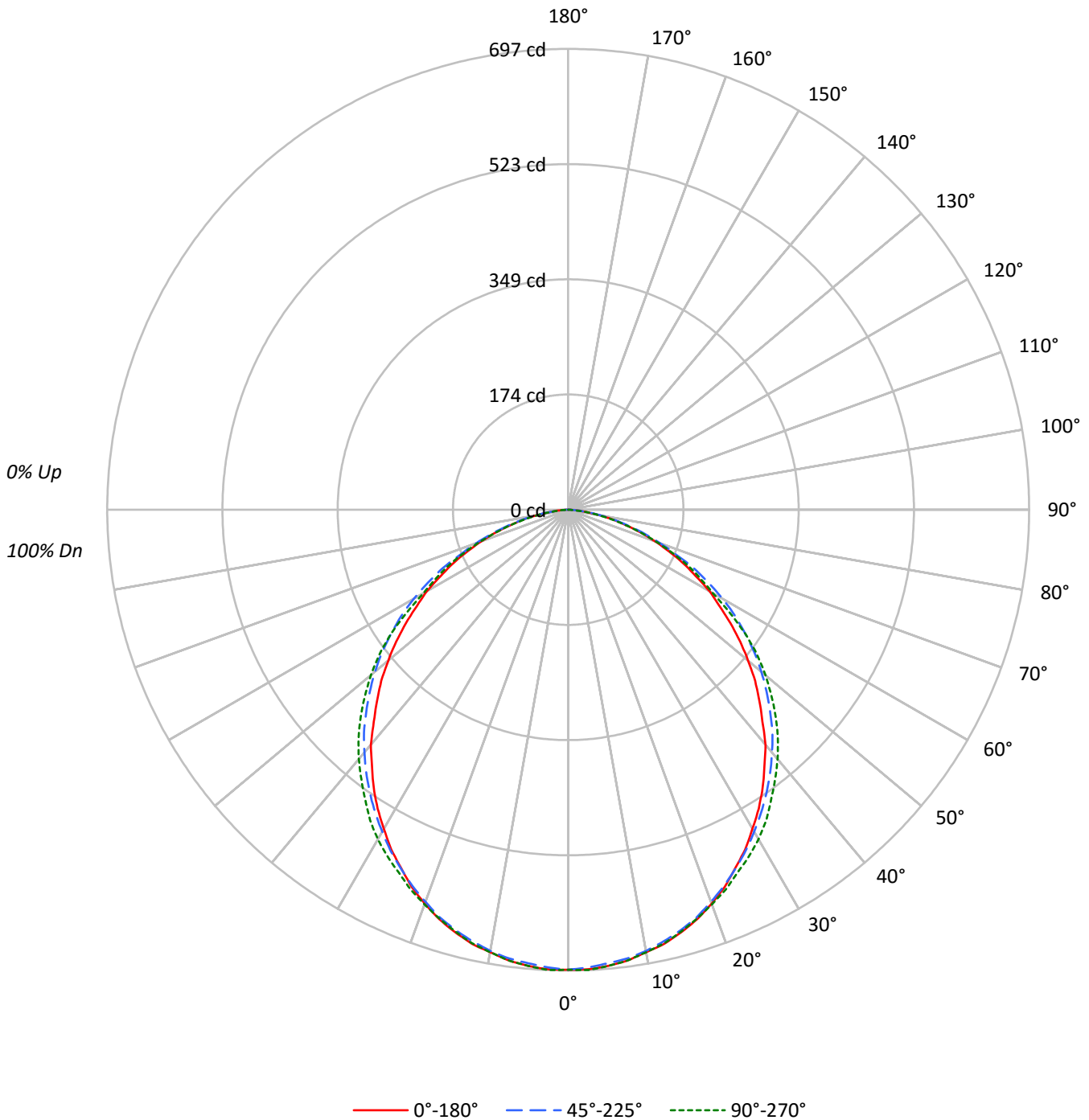
Input Watts (W): 15.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	65	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	43	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	32
9	58	44	36	31	56	44	36	31	43	36	31	42	35	30	41	35	30	28
10	54	41	33	28	53	40	33	28	39	33	28	39	32	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1872	1872	1872
5°	1871	1860	1871
10°	1857	1852	1857
15°	1843	1834	1840
20°	1816	1807	1819
25°	1775	1778	1799
30°	1732	1747	1788
35°	1685	1718	1758
40°	1631	1684	1730
45°	1555	1643	1690
50°	1486	1596	1630
55°	1405	1533	1533
60°	1328	1453	1361
65°	1224	1333	1268
70°	1098	1162	1114
75°	936	989	936
80°	736	769	721
85°	469	469	374



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.6	3.7
10°-20°	186.1	10.4
20°-30°	277.0	15.4
30°-40°	327.5	18.3
40°-50°	330.7	18.4
50°-60°	285.9	15.9
60°-70°	199.5	11.1
70°-80°	100.7	5.6
80°-90°	20.0	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°	528.7	29.5
0°-40°	856.2	47.8
0°-60°	1472.8	82.1
0°-90°	1793.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1793.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	696	696	696	696	696	
5°	693	692	689	693	693	66
15°	661	660	658	660	660	186
25°	598	599	599	605	606	276
35°	513	515	523	533	535	320
45°	409	415	432	443	444	316
55°	299	312	327	331	327	268
65°	192	204	209	198	199	190
75°	90	99	95	92	90	97
85°	15	17	15	13	12	20
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	695.8	695.8	695.8	695.8	695.8
2.5°	695.8	695.8	692.8	696.8	696.8
5°	692.8	691.8	688.7	692.8	692.8
7.5°	687.7	686.7	684.7	687.7	687.7
10°	679.6	679.6	677.6	680.6	679.6
12.5°	672.5	671.5	668.5	671.5	671.5
15°	661.4	660.4	658.4	660.4	660.4
17.5°	649.3	647.3	646.3	648.3	648.3
20°	634.1	633.1	631.1	635.1	635.1
22.5°	617.9	615.9	615.9	620.0	622.0
25°	597.7	598.7	598.7	604.8	605.8
27.5°	579.5	579.5	581.5	588.6	591.6
30°	557.3	559.3	562.3	571.4	575.5
32.5°	536.0	539.0	543.1	554.2	557.3
35°	512.8	514.8	522.9	533.0	535.0
37.5°	487.5	489.5	501.6	512.8	513.8
40°	464.2	465.2	479.4	489.5	492.5
42.5°	434.9	442.0	457.1	467.2	469.3
45°	408.6	414.7	431.8	443.0	444.0
47.5°	383.3	389.4	406.6	415.7	416.7
50°	355.0	363.1	381.3	388.4	389.4
52.5°	327.7	337.8	355.0	361.1	360.0
55°	299.4	312.5	326.7	330.7	326.7
57.5°	271.0	286.2	299.4	298.3	289.2
60°	246.8	257.9	270.0	260.9	252.8
62.5°	217.4	231.6	238.7	226.5	225.5
65°	192.2	204.3	209.3	198.2	199.2
67.5°	164.8	177.0	175.0	171.9	169.9
70°	139.6	151.7	147.7	143.6	141.6
72.5°	115.3	125.4	121.4	118.3	115.3
75°	90.0	99.1	95.1	92.0	90.0
77.5°	68.8	73.8	71.8	68.8	66.7
80°	47.5	52.6	49.6	46.5	46.5
82.5°	29.3	33.4	30.3	28.3	27.3
85°	15.2	17.2	15.2	13.1	12.1
87.5°	6.1	6.1	4.0	3.0	3.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)