

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: P220036

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220036
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-4L35-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: 4483.6 lumens
Efficiency: N/A
Efficacy: 103.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.23 / 1.33
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

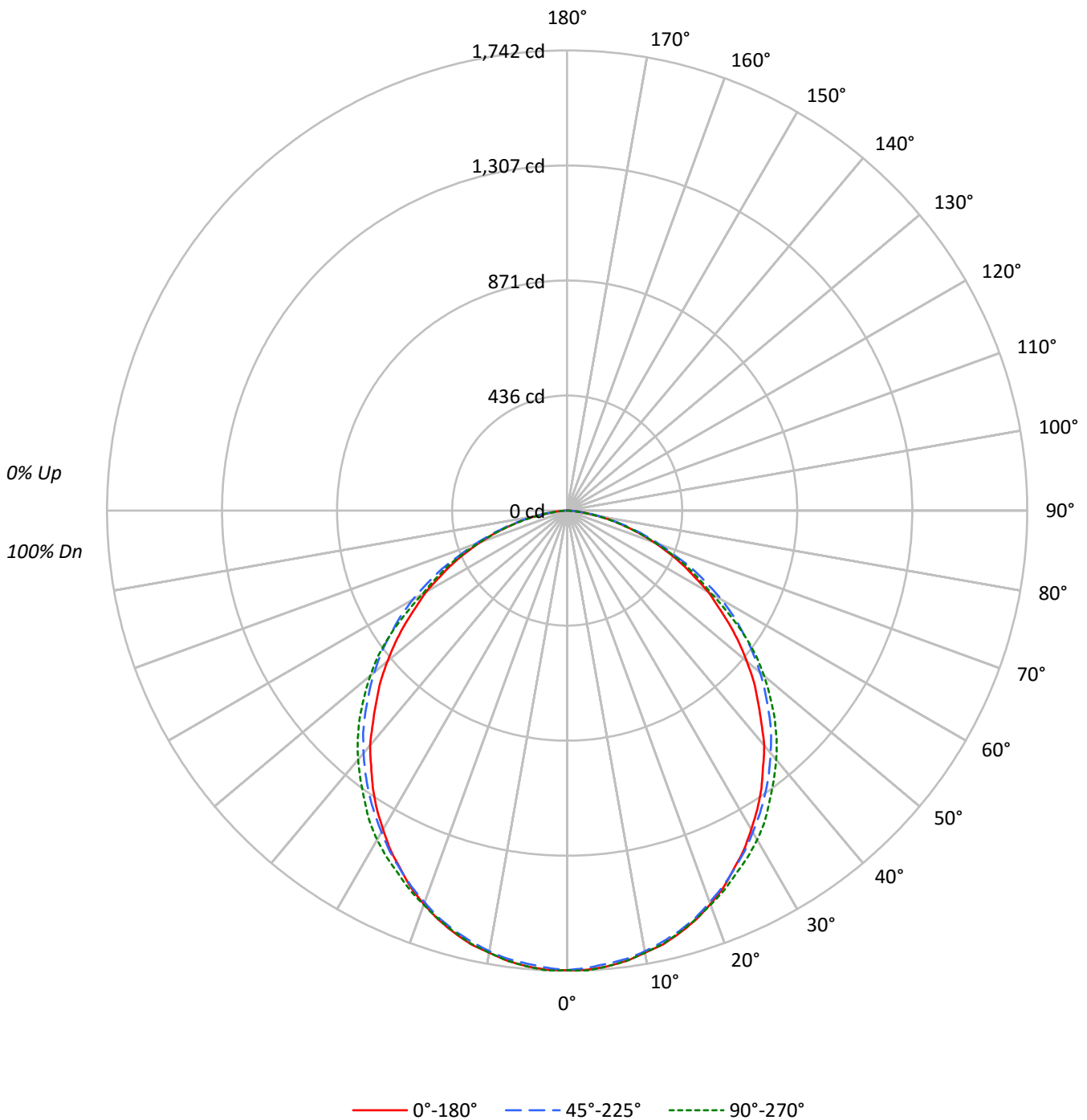
Input Watts (W): 43.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	4682	4682	4682
5°	4679	4652	4679
10°	4644	4630	4644
15°	4608	4586	4601
20°	4541	4519	4548
25°	4438	4445	4498
30°	4330	4369	4471
35°	4212	4295	4395
40°	4078	4211	4326
45°	3888	4109	4225
50°	3716	3991	4076
55°	3512	3832	3832
60°	3321	3634	3402
65°	3060	3333	3172
70°	2746	2905	2785
75°	2340	2471	2340
80°	1843	1920	1802
85°	1170	1170	936



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.1	3.7
10°-20°	465.3	10.4
20°-30°	692.7	15.4
30°-40°	818.8	18.3
40°-50°	826.9	18.4
50°-60°	714.9	15.9
60°-70°	499.0	11.1
70°-80°	251.8	5.6
80°-90°	50.1	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°	1322.1	29.5
0°-40°	2140.9	47.8
0°-60°	3682.7	82.1
0°-90°	4483.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4483.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1740	1740	1740	1740	1740	
5°	1732	1730	1722	1732	1732	164
15°	1654	1651	1646	1651	1651	466
25°	1495	1497	1497	1512	1515	689
35°	1282	1287	1307	1333	1338	801
45°	1022	1037	1080	1108	1110	789
55°	748	781	817	827	817	670
65°	480	511	524	496	498	475
75°	225	248	238	230	225	242
85°	38	43	38	33	30	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1739.9	1739.9	1739.9	1739.9	1739.9
2.5°	1739.9	1739.9	1732.3	1742.4	1742.4
5°	1732.3	1729.8	1722.2	1732.3	1732.3
7.5°	1719.6	1717.1	1712.1	1719.6	1719.6
10°	1699.4	1699.4	1694.3	1701.9	1699.4
12.5°	1681.7	1679.2	1671.6	1679.2	1679.2
15°	1653.9	1651.4	1646.3	1651.4	1651.4
17.5°	1623.5	1618.5	1616.0	1621.0	1621.0
20°	1585.6	1583.1	1578.0	1588.1	1588.1
22.5°	1545.1	1540.1	1540.1	1550.2	1555.3
25°	1494.6	1497.1	1497.1	1512.3	1514.8
27.5°	1449.0	1449.0	1454.1	1471.8	1479.4
30°	1393.4	1398.5	1406.1	1428.8	1438.9
32.5°	1340.3	1347.9	1358.0	1385.8	1393.4
35°	1282.1	1287.2	1307.4	1332.7	1337.8
37.5°	1218.9	1224.0	1254.3	1282.1	1284.7
40°	1160.8	1163.3	1198.7	1224.0	1231.6
42.5°	1087.4	1105.1	1143.1	1168.3	1173.4
45°	1021.7	1036.8	1079.8	1107.6	1110.2
47.5°	958.4	973.6	1016.6	1039.4	1041.9
50°	887.6	907.9	953.4	971.1	973.6
52.5°	819.4	844.6	887.6	902.8	900.3
55°	748.5	781.4	816.8	826.9	816.8
57.5°	677.7	715.7	748.5	746.0	723.3
60°	617.0	644.9	675.2	652.5	632.2
62.5°	543.7	579.1	596.8	566.5	563.9
65°	480.5	510.8	523.5	495.7	498.2
67.5°	412.2	442.6	437.5	429.9	424.9
70°	349.0	379.3	369.2	359.1	354.0
72.5°	288.3	313.6	303.5	295.9	288.3
75°	225.1	247.8	237.7	230.1	225.1
77.5°	172.0	184.6	179.6	172.0	166.9
80°	118.9	131.5	123.9	116.3	116.3
82.5°	73.3	83.5	75.9	70.8	68.3
85°	37.9	43.0	37.9	32.9	30.3
87.5°	15.2	15.2	10.1	7.6	7.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)