

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: P220283

Luminaire Tested: **Z3-WD-3L35-LD5-UNV-24**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220283
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35867)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: Z3-WD-3L35-LD5-UNV-24
Description: CLASS Z3 2X4 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

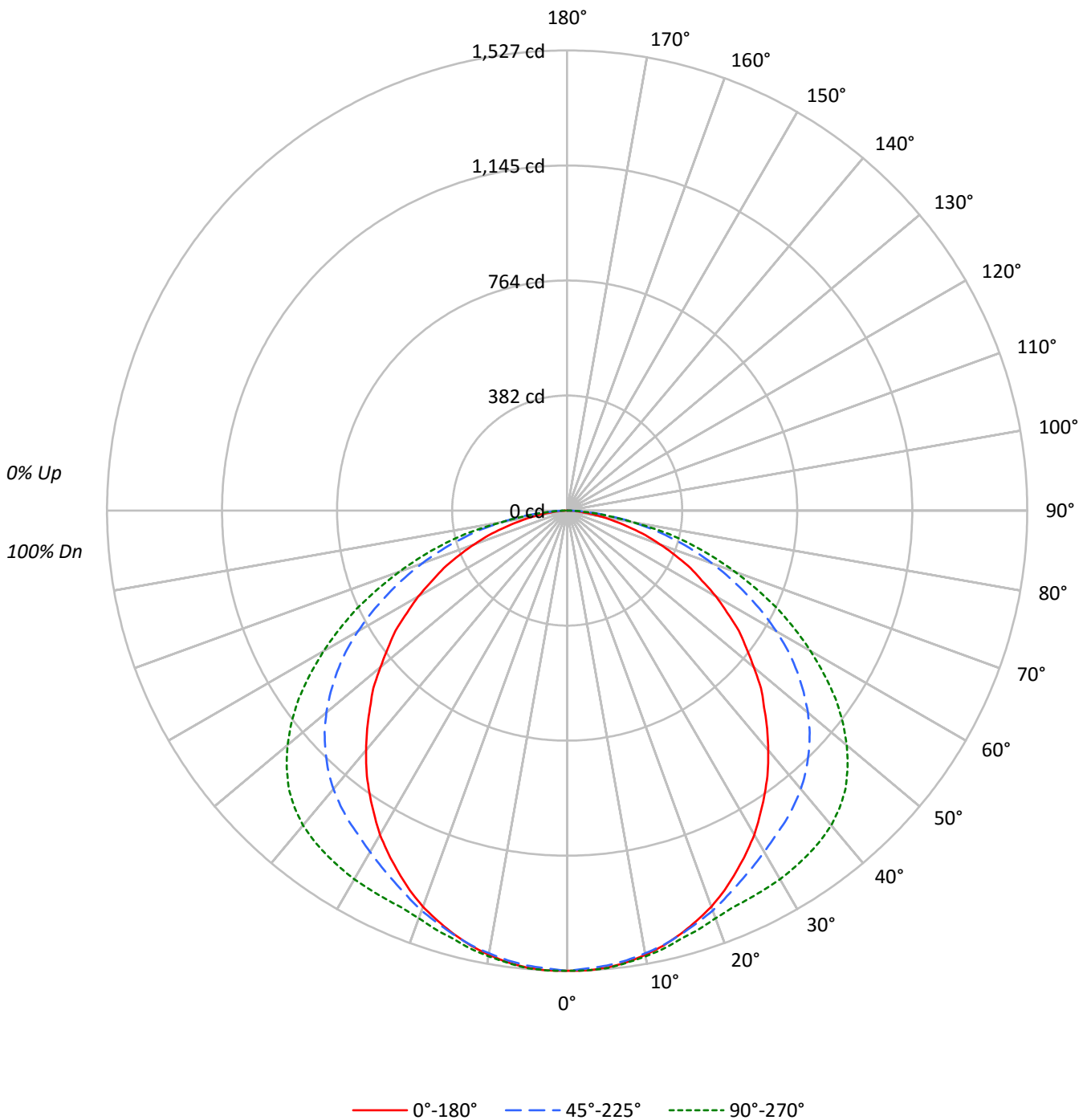
Lumens per Lamp: N/A
Luminaire Lumens: 4736.1 lumens
Efficiency: N/A
Efficacy: 117.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.4 / 1.46
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 40.4
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	108	103	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	68
3	89	78	70	63	87	77	69	63	74	67	62	71	65	60	68	64	59	57
4	81	69	60	53	79	68	59	53	65	58	52	63	56	51	61	55	51	48
5	75	61	52	45	73	60	52	45	58	51	45	56	49	44	54	48	44	41
6	69	55	46	39	67	54	46	39	52	45	39	51	44	39	49	43	38	36
7	64	50	41	35	62	49	41	34	48	40	34	46	39	34	45	38	34	32
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30	28
9	55	42	33	28	54	41	33	27	40	32	27	39	32	27	38	32	27	25
10	52	38	30	25	50	38	30	25	37	30	25	36	29	25	35	29	24	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2055	2055	2055
5°	2056	2047	2058
10°	2045	2038	2052
15°	2026	2029	2048
20°	2003	2022	2061
25°	1967	2017	2112
30°	1930	2032	2195
35°	1879	2071	2290
40°	1823	2119	2395
45°	1760	2158	2485
50°	1692	2183	2536
55°	1631	2185	2549
60°	1535	2157	2511
65°	1440	2090	2450
70°	1288	2011	2324
75°	1097	1895	2167
80°	876	1700	1700
85°	625	1224	1172



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.3	3.0
10°-20°	412.4	8.7
20°-30°	631.6	13.3
30°-40°	791.8	16.7
40°-50°	865.8	18.3
50°-60°	812.9	17.2
60°-70°	627.7	13.3
70°-80°	361.1	7.6
80°-90°	88.5	1.9
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°	1188.4	25.1
0°-40°	1980.2	41.8
0°-60°	3658.9	77.3
0°-90°	4736.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4736.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1527	1527	1527	1527	1527	
5°	1522	1519	1516	1520	1524	144
15°	1455	1456	1456	1468	1470	410
25°	1325	1333	1358	1402	1423	610
35°	1144	1170	1261	1360	1394	715
45°	925	982	1134	1262	1306	714
55°	695	775	932	1051	1087	618
65°	452	530	656	743	770	444
75°	211	282	364	408	417	228
85°	40	74	79	76	76	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1527.3	1527.3	1527.3	1527.3	1527.3
2.5°	1527.3	1525.6	1520.5	1525.6	1527.3
5°	1522.2	1518.9	1515.5	1520.5	1523.9
7.5°	1512.1	1510.4	1505.4	1513.8	1513.8
10°	1496.9	1495.2	1491.9	1500.3	1502.0
12.5°	1478.4	1476.7	1476.7	1486.8	1488.5
15°	1454.7	1456.4	1456.4	1468.2	1469.9
17.5°	1427.7	1427.7	1434.5	1449.7	1456.4
20°	1399.0	1400.7	1412.5	1431.1	1439.5
22.5°	1363.6	1370.3	1385.5	1415.9	1427.7
25°	1324.8	1333.2	1358.5	1402.4	1422.7
27.5°	1284.3	1296.1	1333.2	1392.3	1417.6
30°	1242.1	1257.3	1307.9	1383.8	1412.5
32.5°	1193.1	1213.4	1282.6	1372.0	1404.1
35°	1144.2	1169.5	1260.6	1360.2	1394.0
37.5°	1093.6	1122.3	1235.3	1341.7	1380.5
40°	1037.9	1078.4	1206.6	1321.4	1363.6
42.5°	982.2	1031.1	1172.9	1296.1	1338.3
45°	924.8	982.2	1134.1	1262.3	1306.2
47.5°	872.5	933.3	1091.9	1220.1	1262.3
50°	808.4	884.3	1042.9	1171.2	1211.7
52.5°	749.3	832.0	988.9	1115.5	1152.6
55°	695.3	774.6	931.6	1051.4	1086.8
57.5°	629.5	715.5	870.8	982.2	1010.9
60°	570.4	654.8	801.6	904.6	933.3
62.5°	504.6	599.1	730.7	826.9	852.2
65°	452.3	529.9	656.5	742.6	769.6
67.5°	388.2	465.8	583.9	659.9	678.4
70°	327.4	401.7	511.3	575.5	590.7
72.5°	273.4	339.2	438.8	491.1	504.6
75°	211.0	281.8	364.5	408.4	416.8
77.5°	160.3	222.8	293.6	322.3	329.1
80°	113.1	170.4	219.4	231.2	219.4
82.5°	72.6	119.8	150.2	143.4	138.4
85°	40.5	74.3	79.3	75.9	75.9
87.5°	16.9	27.0	27.0	25.3	27.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)