

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: P220288

Luminaire Tested: **Z3-WD-3L40-LD5-UNV-24**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220288
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-3L40-LD5-UNV-24
Description: CLASS Z3 2X4 RECESSED LED LUMIANIRE
WITH A CLEAR SMOOTH ROUND LENS & ROUND PERF INLAY
Light Source: (168) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4959.6 lumens
Efficiency: N/A
Efficacy: 122.8 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

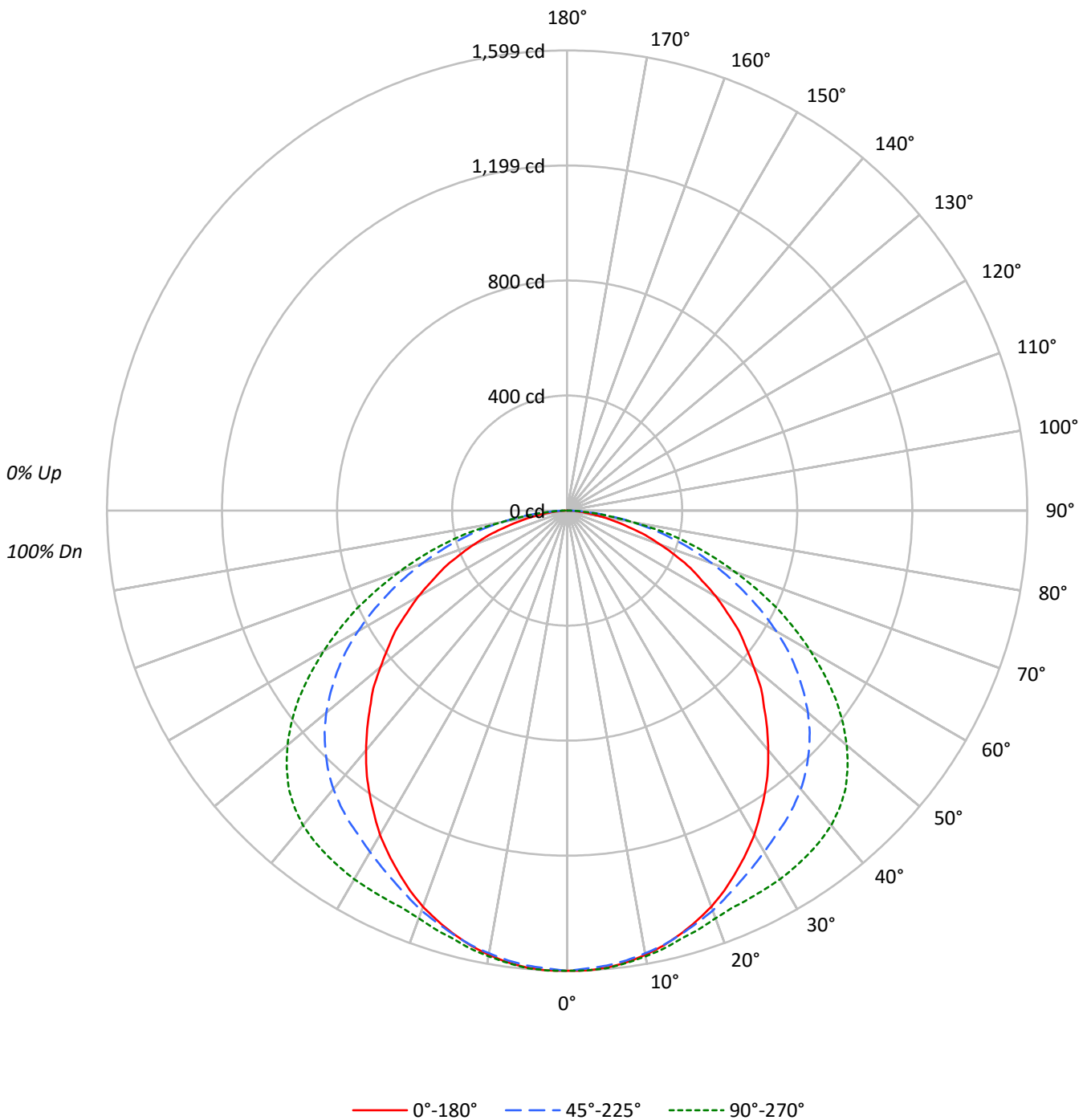
Input Watts (W): 40.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2152	2152	2152
5°	2153	2143	2155
10°	2142	2134	2149
15°	2122	2124	2144
20°	2098	2118	2158
25°	2060	2112	2212
30°	2021	2128	2298
35°	1968	2168	2398
40°	1909	2219	2508
45°	1843	2260	2603
50°	1772	2286	2656
55°	1708	2288	2670
60°	1607	2259	2630
65°	1508	2189	2566
70°	1349	2107	2433
75°	1148	1984	2269
80°	917	1780	1780
85°	655	1283	1227



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.1	3.0
10°-20°	431.9	8.7
20°-30°	661.4	13.3
30°-40°	829.2	16.7
40°-50°	906.6	18.3
50°-60°	851.3	17.2
60°-70°	657.3	13.3
70°-80°	378.1	7.6
80°-90°	92.7	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°	1244.4	25.1
0°-40°	2073.6	41.8
0°-60°	3831.5	77.3
0°-90°	4959.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4959.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1599	1599	1599	1599	1599	
5°	1594	1590	1587	1592	1596	151
15°	1523	1525	1525	1538	1539	430
25°	1387	1396	1423	1469	1490	639
35°	1198	1225	1320	1424	1460	749
45°	968	1028	1188	1322	1368	748
55°	728	811	976	1101	1138	647
65°	474	555	688	778	806	465
75°	221	295	382	428	436	239
85°	42	78	83	80	80	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1599.3	1599.3	1599.3	1599.3	1599.3
2.5°	1599.3	1597.6	1592.3	1597.6	1599.3
5°	1594.0	1590.5	1587.0	1592.3	1595.8
7.5°	1583.4	1581.7	1576.4	1585.2	1585.2
10°	1567.5	1565.8	1562.2	1571.1	1572.8
12.5°	1548.1	1546.3	1546.3	1556.9	1558.7
15°	1523.4	1525.1	1525.1	1537.5	1539.3
17.5°	1495.1	1495.1	1502.2	1518.1	1525.1
20°	1465.0	1466.8	1479.2	1498.6	1507.5
22.5°	1427.9	1435.0	1450.9	1482.7	1495.1
25°	1387.3	1396.1	1422.6	1468.6	1489.8
27.5°	1344.9	1357.2	1396.1	1458.0	1484.5
30°	1300.7	1316.6	1369.6	1449.1	1479.2
32.5°	1249.4	1270.6	1343.1	1436.8	1470.3
35°	1198.2	1224.7	1320.1	1424.4	1459.7
37.5°	1145.2	1175.2	1293.6	1405.0	1445.6
40°	1086.8	1129.3	1263.6	1383.7	1427.9
42.5°	1028.5	1079.8	1228.2	1357.2	1401.4
45°	968.4	1028.5	1187.6	1321.9	1367.8
47.5°	913.7	977.3	1143.4	1277.7	1321.9
50°	846.5	926.0	1092.2	1226.5	1268.9
52.5°	784.7	871.2	1035.6	1168.1	1207.0
55°	728.1	811.2	975.5	1101.0	1138.1
57.5°	659.2	749.3	911.9	1028.5	1058.6
60°	597.3	685.7	839.4	947.2	977.3
62.5°	528.4	627.4	765.2	865.9	892.5
65°	473.6	554.9	687.5	777.6	805.9
67.5°	406.5	487.8	611.5	691.0	710.4
70°	342.8	420.6	535.5	602.6	618.5
72.5°	286.3	355.2	459.5	514.3	528.4
75°	220.9	295.1	381.7	427.7	436.5
77.5°	167.9	233.3	307.5	337.5	344.6
80°	118.4	178.5	229.7	242.1	229.7
82.5°	76.0	125.5	157.3	150.2	144.9
85°	42.4	77.8	83.1	79.5	79.5
87.5°	17.7	28.3	28.3	26.5	28.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)