

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: P220259

Luminaire Tested: **Z3-WL-2L40-LD5-UNV-24**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220259
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35865)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: Z3-WL-2L40-LD5-UNV-24
Description: CLASS Z3 2X4 RECESSED LED LUMIANIRE
WITH A FROSTED PRISMATIC ROUND LENS
Light Source: (168) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4198.2 lumens
Efficiency: N/A
Efficacy: 137.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.31 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

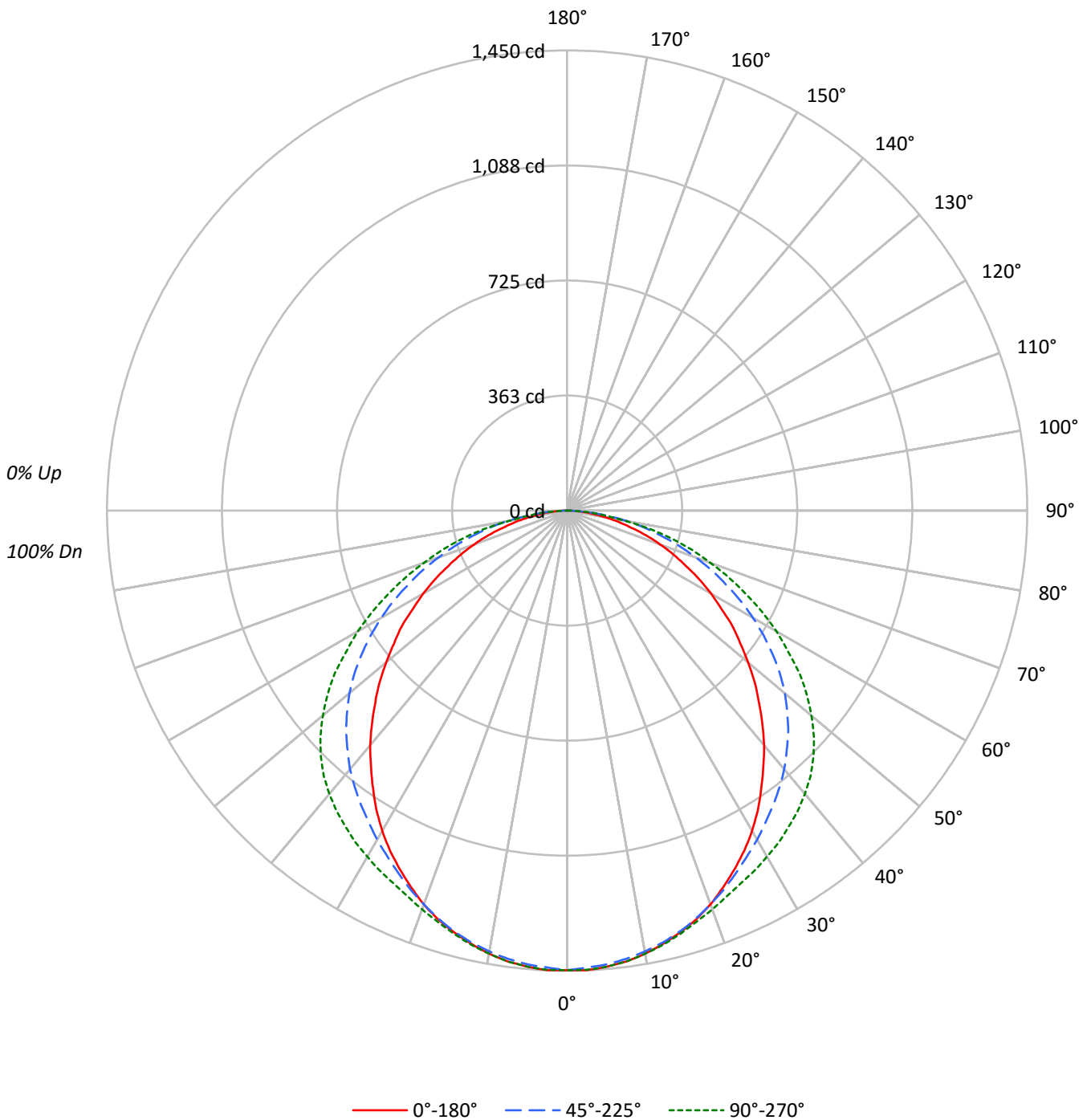
Input Watts (W): 30.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83
2	98	90	83	77	96	88	82	76	85	79	74	81	77	73	78	74	71	69
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	46	57	50	45	55	49	45	42
6	69	56	47	40	67	55	46	40	53	45	40	51	45	39	50	44	39	37
7	64	51	42	36	63	50	41	35	48	41	35	47	40	35	45	39	35	33
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	38	30	26	37	30	25	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1948	1948	1948
5°	1948	1939	1948
10°	1937	1927	1937
15°	1917	1913	1923
20°	1891	1891	1915
25°	1852	1870	1924
30°	1811	1860	1957
35°	1753	1860	1998
40°	1697	1869	2047
45°	1627	1875	2088
50°	1558	1874	2103
55°	1495	1856	2097
60°	1410	1820	2051
65°	1315	1760	1976
70°	1227	1690	1886
75°	1088	1599	1772
80°	955	1492	1417
85°	814	1176	1155



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.7	3.3
10°-20°	388.4	9.3
20°-30°	584.8	13.9
30°-40°	712.5	17.0
40°-50°	755.4	18.0
50°-60°	694.2	16.5
60°-70°	531.8	12.7
70°-80°	310.7	7.4
80°-90°	83.8	2.0
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°	1109.9	26.4
0°-40°	1822.4	43.4
0°-60°	3271.9	77.9
0°-90°	4198.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4198.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1448	1448	1448	1448	1448	
5°	1443	1440	1436	1443	1443	137
15°	1376	1376	1373	1380	1380	388
25°	1247	1253	1260	1286	1296	575
35°	1067	1081	1132	1194	1217	668
45°	855	888	985	1070	1098	660
55°	637	687	791	869	894	567
65°	413	467	553	610	621	412
75°	209	256	308	338	341	225
85°	53	73	76	78	75	61
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1448.1	1448.1	1448.1	1448.1	1448.1
2.5°	1449.5	1446.7	1441.2	1448.1	1448.1
5°	1442.6	1439.8	1435.6	1442.6	1442.6
7.5°	1432.9	1430.1	1424.6	1432.9	1432.9
10°	1417.6	1416.2	1410.7	1419.0	1417.6
12.5°	1398.2	1398.2	1394.1	1401.0	1401.0
15°	1376.1	1376.1	1373.3	1380.2	1380.2
17.5°	1351.1	1351.1	1348.3	1358.0	1358.0
20°	1320.6	1317.9	1320.6	1334.5	1337.3
22.5°	1284.6	1286.0	1291.5	1309.5	1315.1
25°	1247.2	1252.7	1259.6	1286.0	1295.7
27.5°	1208.4	1213.9	1227.8	1265.2	1279.1
30°	1165.4	1172.3	1197.3	1243.0	1259.6
32.5°	1118.3	1129.4	1164.0	1220.8	1240.2
35°	1067.0	1080.9	1132.2	1194.5	1216.7
37.5°	1015.8	1035.2	1098.9	1169.6	1193.1
40°	965.9	986.7	1064.3	1140.5	1165.4
42.5°	910.4	938.2	1024.1	1105.8	1134.9
45°	855.0	888.3	985.3	1069.8	1097.5
47.5°	802.4	838.4	940.9	1028.2	1054.6
50°	744.1	791.3	895.2	978.3	1004.7
52.5°	687.3	738.6	845.3	929.8	952.0
55°	637.4	687.3	791.3	868.9	893.8
57.5°	576.5	636.1	734.4	807.9	824.5
60°	523.8	575.1	676.2	744.1	762.2
62.5°	469.8	525.2	616.7	674.9	692.9
65°	413.0	467.0	552.9	609.7	620.8
67.5°	363.1	415.7	494.7	537.7	551.5
70°	311.8	357.5	429.6	472.5	479.5
72.5°	261.9	307.6	370.0	403.3	413.0
75°	209.2	256.4	307.6	338.1	340.9
77.5°	166.3	206.5	250.8	267.5	268.8
80°	123.3	159.4	192.6	191.2	182.9
82.5°	84.5	112.2	130.3	127.5	121.9
85°	52.7	73.4	76.2	77.6	74.8
87.5°	23.6	29.1	31.9	31.9	30.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)