

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: P220254

Luminaire Tested: **Z3-WL-2L35-LD5-UNV-24**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220254
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-2L35-LD5-UNV-24
Description: CLASS Z3 2X4 RECESSED LED LUMIANIRE
WITH A FROSTED PRISMATIC ROUND LENS
Light Source: (168) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4009.1 lumens
Efficiency: N/A
Efficacy: 131.4 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

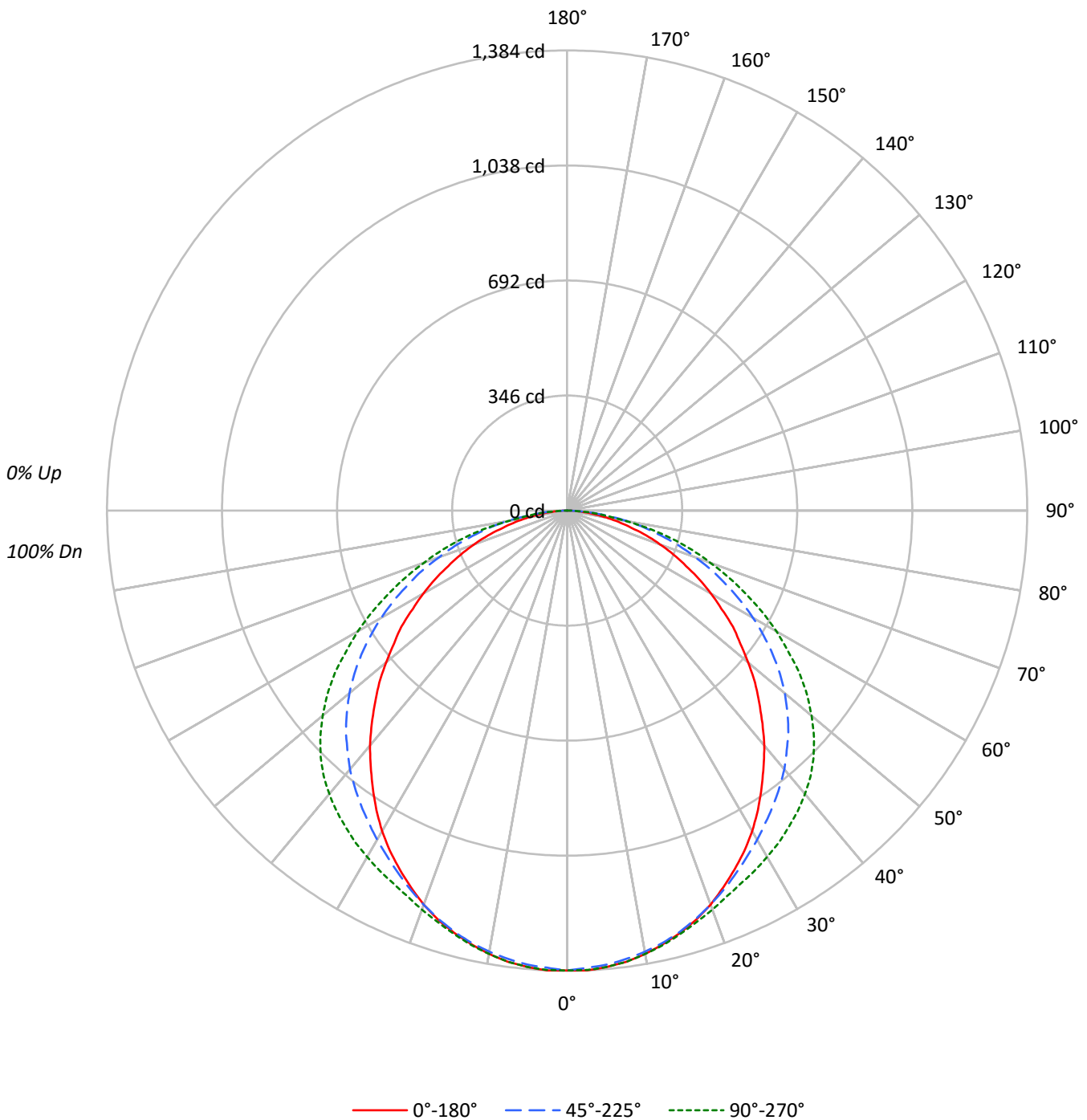
Input Watts (W): 30.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1861	1861	1861
5°	1861	1852	1861
10°	1850	1840	1850
15°	1830	1827	1836
20°	1806	1806	1828
25°	1768	1786	1837
30°	1729	1776	1869
35°	1674	1776	1908
40°	1620	1785	1955
45°	1554	1790	1994
50°	1487	1789	2008
55°	1428	1772	2002
60°	1346	1738	1958
65°	1255	1681	1887
70°	1171	1614	1801
75°	1039	1527	1692
80°	913	1425	1354
85°	777	1124	1104



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.5	3.3
10°-20°	370.9	9.3
20°-30°	558.5	13.9
30°-40°	680.4	17.0
40°-50°	721.3	18.0
50°-60°	662.9	16.5
60°-70°	507.8	12.7
70°-80°	296.7	7.4
80°-90°	80.0	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°	1059.9	26.4
0°-40°	1740.3	43.4
0°-60°	3124.5	77.9
0°-90°	4009.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4009.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1383	1383	1383	1383	1383	
5°	1378	1375	1371	1378	1378	131
15°	1314	1314	1311	1318	1318	371
25°	1191	1196	1203	1228	1237	549
35°	1019	1032	1081	1141	1162	638
45°	816	848	941	1022	1048	631
55°	609	656	756	830	854	541
65°	394	446	528	582	593	393
75°	200	245	294	323	326	215
85°	50	70	73	74	72	58
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1382.9	1382.9	1382.9	1382.9	1382.9
2.5°	1384.2	1381.5	1376.3	1382.9	1382.9
5°	1377.6	1374.9	1371.0	1377.6	1377.6
7.5°	1368.3	1365.7	1360.4	1368.3	1368.3
10°	1353.8	1352.4	1347.1	1355.1	1353.8
12.5°	1335.2	1335.2	1331.3	1337.9	1337.9
15°	1314.1	1314.1	1311.4	1318.0	1318.0
17.5°	1290.2	1290.2	1287.6	1296.9	1296.9
20°	1261.1	1258.5	1261.1	1274.4	1277.0
22.5°	1226.7	1228.0	1233.3	1250.5	1255.8
25°	1191.0	1196.3	1202.9	1228.0	1237.3
27.5°	1153.9	1159.2	1172.5	1208.2	1221.4
30°	1112.9	1119.5	1143.4	1187.0	1202.9
32.5°	1067.9	1078.5	1111.6	1165.8	1184.4
35°	1019.0	1032.2	1081.2	1140.7	1161.9
37.5°	970.0	988.5	1049.4	1116.9	1139.4
40°	922.4	942.2	1016.3	1089.1	1112.9
42.5°	869.4	895.9	977.9	1056.0	1083.8
45°	816.5	848.2	940.9	1021.6	1048.1
47.5°	766.2	800.6	898.5	981.9	1007.0
50°	710.6	755.6	854.9	934.3	959.4
52.5°	656.4	705.3	807.2	887.9	909.1
55°	608.7	656.4	755.6	829.7	853.5
57.5°	550.5	607.4	701.4	771.5	787.4
60°	500.2	549.2	645.8	710.6	727.8
62.5°	448.6	501.5	588.9	644.5	661.7
65°	394.3	446.0	528.0	582.3	592.8
67.5°	346.7	397.0	472.4	513.4	526.7
70°	297.7	341.4	410.2	451.3	457.9
72.5°	250.1	293.8	353.3	385.1	394.3
75°	199.8	244.8	293.8	322.9	325.5
77.5°	158.8	197.2	239.5	255.4	256.7
80°	117.8	152.2	183.9	182.6	174.7
82.5°	80.7	107.2	124.4	121.7	116.5
85°	50.3	70.1	72.8	74.1	71.5
87.5°	22.5	27.8	30.4	30.4	29.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)