

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: P220009

Luminaire Tested: **Z3-WL-5L35-LD5-UNV-14**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220009
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35873)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: Z3-WL-5L35-LD5-UNV-14
Description: CLASS Z3 1X4 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: 6009.7 lumens
Efficiency: N/A
Efficacy: 111.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.31
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

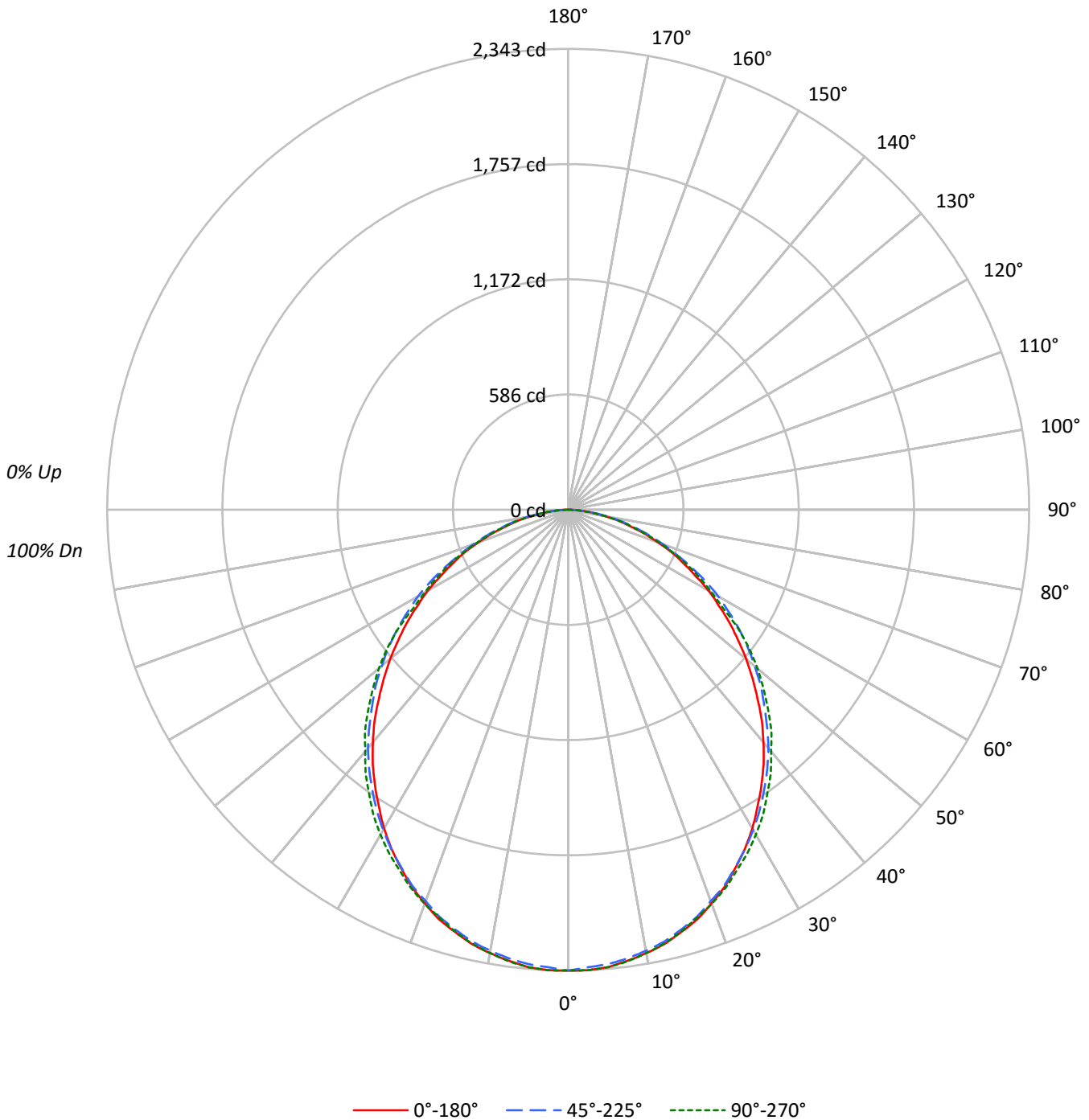
Input Watts (W): 54
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P220009

CATALOG NUMBER: Z3-WL-5L35-LD5-UNV-14

Luminous Intensity Polar Plot





TEST NUMBER: P220009

CATALOG NUMBER: Z3-WL-5L35-LD5-UNV-14

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	100	97	106	102	99	95	98	95	92	94	92	89	91	89	87	85
2	100	92	85	79	97	90	84	78	86	81	77	83	79	75	80	76	73	71
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60
4	83	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52
5	77	64	55	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	42	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	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6306	6306	6306
5°	6306	6265	6306
10°	6255	6222	6255
15°	6193	6160	6185
20°	6100	6065	6108
25°	5967	5959	6012
30°	5816	5844	5928
35°	5625	5704	5793
40°	5425	5562	5635
45°	5179	5362	5465
50°	4942	5182	5257
55°	4693	4975	4947
60°	4447	4737	4527
65°	4132	4381	4266
70°	3806	4018	3900
75°	3405	3623	3530
80°	2980	3212	3027
85°	2504	2411	2226



TEST NUMBER: P220009

CATALOG NUMBER: Z3-WL-5L35-LD5-UNV-14

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	221.0	3.7
10°-20°	625.7	10.4
20°-30°	928.4	15.4
30°-40°	1087.3	18.1
40°-50°	1085.0	18.1
50°-60°	932.6	15.5
60°-70°	669.3	11.1
70°-80°	367.9	6.1
80°-90°	92.6	1.5
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°	1775.0	29.5
0°-40°	2862.4	47.6
0°-60°	4880.0	81.2
0°-90°	6009.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6009.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2343	2343	2343	2343	2343	
5°	2334	2331	2319	2334	2334	221
15°	2223	2220	2211	2223	2220	627
25°	2010	2010	2007	2025	2025	926
35°	1712	1718	1736	1760	1764	1071
45°	1361	1376	1409	1436	1436	1052
55°	1000	1027	1060	1066	1054	894
65°	649	679	688	676	670	644
75°	328	352	348	348	340	351
85°	81	84	78	69	72	93
90°	0	0	0	0	0	



TEST NUMBER: P220009

CATALOG NUMBER: Z3-WL-5L35-LD5-UNV-14

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2343.3	2343.3	2343.3	2343.3	2343.3
2.5°	2343.3	2340.3	2328.2	2343.3	2343.3
5°	2334.3	2331.3	2319.2	2334.3	2334.3
7.5°	2313.2	2313.2	2301.2	2313.2	2316.2
10°	2289.2	2289.2	2277.2	2292.2	2289.2
12.5°	2262.2	2256.1	2250.1	2262.2	2259.2
15°	2223.1	2220.1	2211.1	2223.1	2220.1
17.5°	2184.0	2178.0	2172.0	2181.0	2175.0
20°	2130.0	2127.0	2118.0	2133.0	2133.0
22.5°	2075.9	2072.9	2069.9	2081.9	2084.9
25°	2009.8	2009.8	2006.8	2024.8	2024.8
27.5°	1943.7	1943.7	1946.7	1967.7	1970.7
30°	1871.6	1871.6	1880.6	1904.7	1907.7
32.5°	1790.5	1796.5	1811.5	1838.6	1841.6
35°	1712.4	1718.4	1736.4	1760.5	1763.5
37.5°	1631.3	1637.3	1661.3	1685.4	1691.4
40°	1544.2	1550.2	1583.2	1604.2	1604.2
42.5°	1457.0	1466.0	1496.1	1523.1	1529.1
45°	1360.9	1375.9	1409.0	1436.0	1436.0
47.5°	1270.8	1291.8	1327.9	1351.9	1345.9
50°	1180.6	1201.7	1237.7	1258.8	1255.8
52.5°	1087.5	1111.6	1150.6	1165.6	1159.6
55°	1000.4	1027.4	1060.5	1066.5	1054.5
57.5°	907.3	937.3	967.3	967.3	934.3
60°	826.2	850.2	880.2	847.2	841.2
62.5°	730.0	766.1	787.1	757.1	757.1
65°	648.9	678.9	688.0	675.9	669.9
67.5°	570.8	594.8	594.8	588.8	585.8
70°	483.7	510.7	510.7	501.7	495.7
72.5°	405.6	432.6	429.6	429.6	417.6
75°	327.5	351.5	348.5	348.5	339.5
77.5°	261.4	273.4	279.4	270.4	267.4
80°	192.3	204.3	207.3	198.3	195.3
82.5°	129.2	141.2	141.2	135.2	129.2
85°	81.1	84.1	78.1	69.1	72.1
87.5°	36.1	33.0	27.0	18.0	18.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)