

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: P220257

Luminaire Tested: **Z3-WL-5L35-LD5-UNV-24**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220257
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-5L35-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: 6867.5 lumens
Efficiency: N/A
Efficacy: 117.2 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

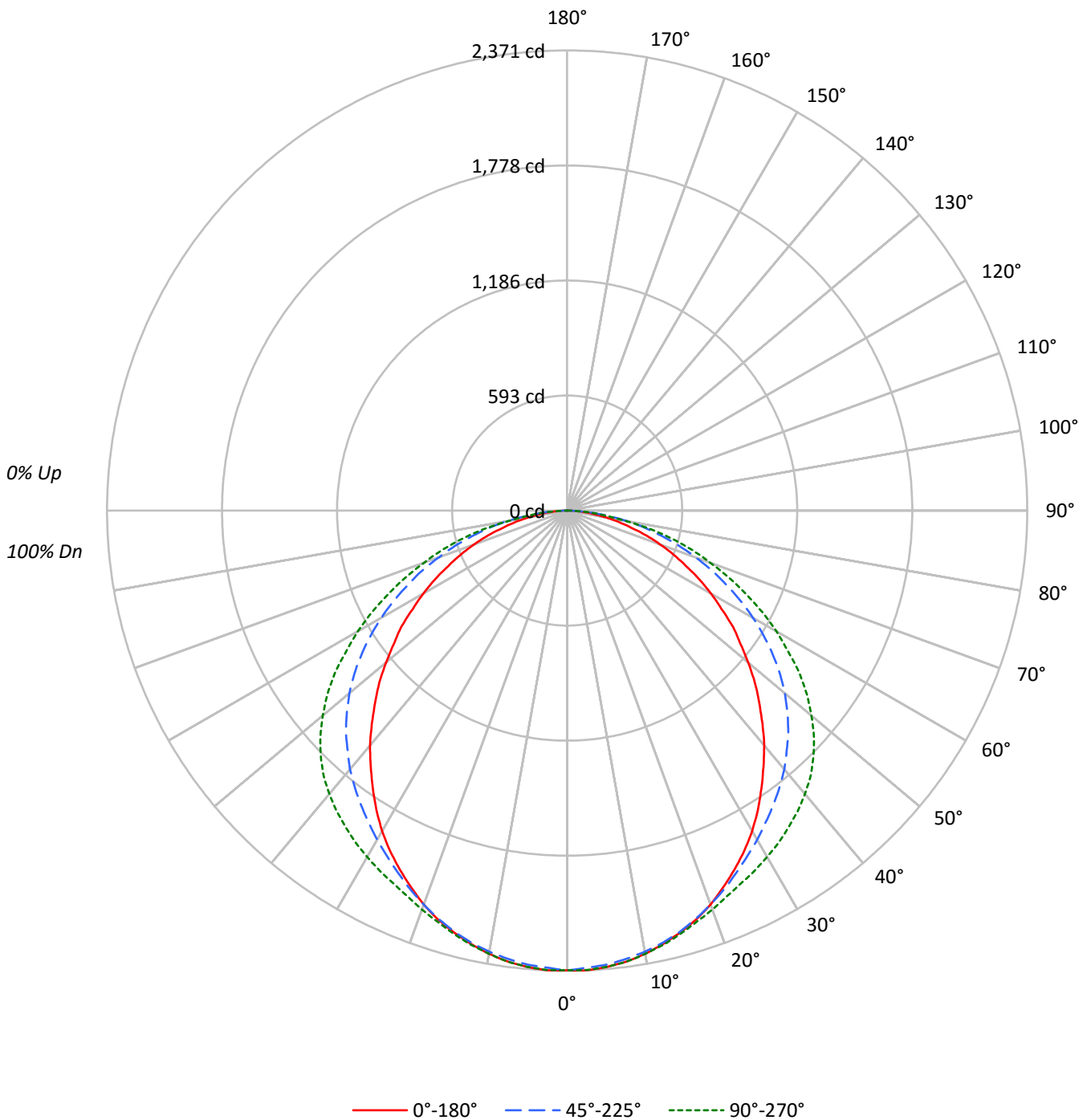
Input Watts (W): 58.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P220257

CATALOG NUMBER: Z3-WL-5L35-LD5-UNV-24

Luminous Intensity Polar Plot





TEST NUMBER: P220257

CATALOG NUMBER: Z3-WL-5L35-LD5-UNV-24

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°	3187	3187	3187
5°	3187	3172	3187
10°	3168	3153	3168
15°	3135	3129	3145
20°	3093	3093	3132
25°	3029	3059	3147
30°	2962	3043	3201
35°	2867	3042	3269
40°	2775	3058	3348
45°	2661	3067	3416
50°	2548	3065	3440
55°	2446	3036	3430
60°	2306	2977	3355
65°	2151	2880	3233
70°	2006	2764	3085
75°	1779	2616	2899
80°	1563	2442	2318
85°	1329	1925	1890



TEST NUMBER: P220257

CATALOG NUMBER: Z3-WL-5L35-LD5-UNV-24

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	223.6	3.3
10°-20°	635.3	9.3
20°-30°	956.6	13.9
30°-40°	1165.6	17.0
40°-50°	1235.6	18.0
50°-60°	1135.5	16.5
60°-70°	869.9	12.7
70°-80°	508.3	7.4
80°-90°	137.1	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°	1815.5	26.4
0°-40°	2981.1	43.4
0°-60°	5352.2	77.9
0°-90°	6867.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6867.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2369	2369	2369	2369	2369	
5°	2360	2355	2348	2360	2360	224
15°	2251	2251	2246	2258	2258	635
25°	2040	2049	2060	2104	2120	940
35°	1745	1768	1852	1954	1990	1092
45°	1399	1453	1612	1750	1795	1080
55°	1043	1124	1294	1421	1462	927
65°	676	764	904	997	1016	673
75°	342	419	503	553	558	369
85°	86	120	125	127	122	99
90°	0	0	0	0	0	



TEST NUMBER: P220257

CATALOG NUMBER: Z3-WL-5L35-LD5-UNV-24

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2368.8	2368.8	2368.8	2368.8	2368.8
2.5°	2371.1	2366.6	2357.5	2368.8	2368.8
5°	2359.8	2355.2	2348.4	2359.8	2359.8
7.5°	2343.9	2339.4	2330.3	2343.9	2343.9
10°	2319.0	2316.7	2307.6	2321.2	2319.0
12.5°	2287.2	2287.2	2280.4	2291.8	2291.8
15°	2250.9	2250.9	2246.4	2257.7	2257.7
17.5°	2210.1	2210.1	2205.6	2221.5	2221.5
20°	2160.3	2155.7	2160.3	2182.9	2187.5
22.5°	2101.3	2103.6	2112.7	2142.1	2151.2
25°	2040.1	2049.2	2060.5	2103.6	2119.5
27.5°	1976.7	1985.7	2008.4	2069.6	2092.3
30°	1906.4	1917.7	1958.5	2033.3	2060.5
32.5°	1829.3	1847.5	1904.1	1997.1	2028.8
35°	1745.4	1768.1	1852.0	1954.0	1990.3
37.5°	1661.6	1693.3	1797.6	1913.2	1951.7
40°	1580.0	1614.0	1740.9	1865.6	1906.4
42.5°	1489.3	1534.6	1675.2	1808.9	1856.5
45°	1398.6	1453.0	1611.7	1750.0	1795.3
47.5°	1312.5	1371.4	1539.2	1682.0	1725.0
50°	1217.3	1294.4	1464.4	1600.4	1643.4
52.5°	1124.3	1208.2	1382.8	1521.0	1557.3
55°	1042.7	1124.3	1294.4	1421.3	1462.1
57.5°	943.0	1040.5	1201.4	1321.6	1348.8
60°	856.9	940.7	1106.2	1217.3	1246.7
62.5°	768.5	859.1	1008.7	1103.9	1133.4
65°	675.5	763.9	904.5	997.4	1015.5
67.5°	593.9	680.0	809.3	879.5	902.2
70°	510.0	584.8	702.7	773.0	784.3
72.5°	428.4	503.2	605.2	659.6	675.5
75°	342.3	419.4	503.2	553.1	557.6
77.5°	272.0	337.8	410.3	437.5	439.8
80°	201.7	260.7	315.1	312.8	299.2
82.5°	138.3	183.6	213.1	208.5	199.5
85°	86.1	120.1	124.7	126.9	122.4
87.5°	38.5	47.6	52.1	52.1	49.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)