

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: P220299

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220299
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35868)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: Z3-WN-5L35-LD5-UNV-24
Description: CLASS Z3 2X4 RECESSED LED LUMIANIRE
WITH A CLEAR SMOOTH ROUND LENS & NANO-PRISM INLAY
Light Source: (168) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6586.0 lumens
Efficiency: N/A
Efficacy: 112.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.37 / 1.44
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

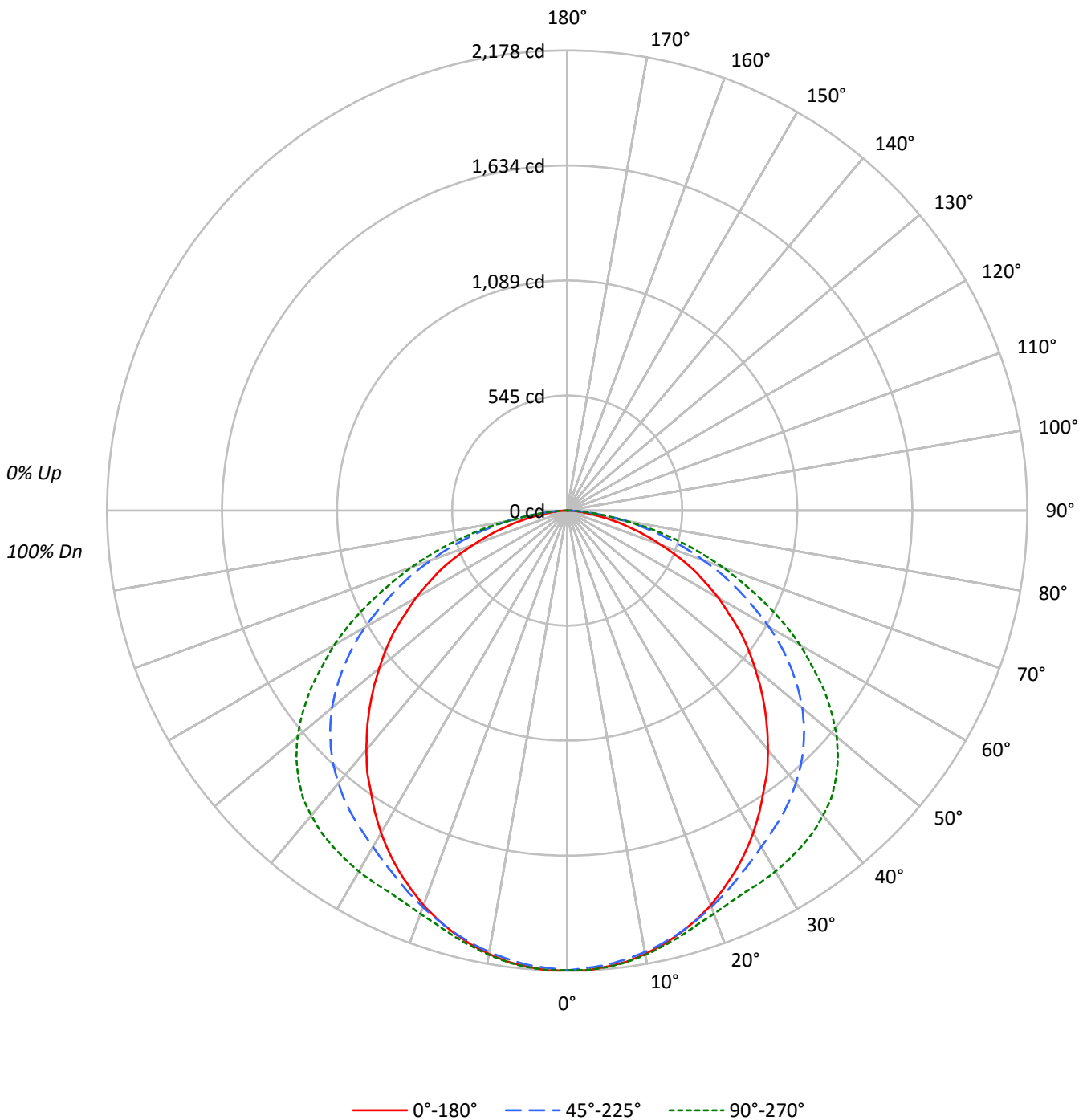
Input Watts (W): 58.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	91	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	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	46	40	67	55	46	40	53	45	39	51	44	39	49	43	39	36
7	64	50	41	35	62	49	41	35	48	40	35	46	39	34	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	42	36	31	41	35	30	28
9	56	42	34	28	54	41	33	28	40	33	28	39	32	28	38	32	27	25
10	52	39	31	25	51	38	30	25	37	30	25	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2928	2928	2928
5°	2927	2915	2930
10°	2911	2899	2917
15°	2883	2880	2902
20°	2846	2860	2908
25°	2797	2844	2958
30°	2736	2856	3064
35°	2662	2904	3183
40°	2596	2958	3309
45°	2519	3011	3420
50°	2429	3041	3487
55°	2345	3031	3488
60°	2227	2971	3428
65°	2093	2858	3284
70°	1855	2693	3077
75°	1567	2463	2769
80°	1212	2196	2125
85°	840	1505	1434



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	205.5	3.1
10°-20°	585.1	8.9
20°-30°	890.8	13.5
30°-40°	1110.9	16.9
40°-50°	1209.6	18.4
50°-60°	1131.1	17.2
60°-70°	862.4	13.1
70°-80°	478.4	7.3
80°-90°	112.2	1.7
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°	1681.5	25.5
0°-40°	2792.4	42.4
0°-60°	5133.0	77.9
0°-90°	6586.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6586.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2176	2176	2176	2176	2176	
5°	2167	2167	2158	2167	2169	206
15°	2070	2070	2067	2081	2083	584
25°	1884	1890	1916	1970	1992	867
35°	1621	1657	1768	1893	1938	1016
45°	1324	1394	1582	1743	1798	1020
55°	1000	1097	1292	1442	1487	890
65°	657	744	898	1004	1031	645
75°	302	383	474	528	533	325
85°	54	93	98	98	93	69
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2176.1	2176.1	2176.1	2176.1	2176.1
2.5°	2178.4	2173.9	2167.1	2173.9	2176.1
5°	2167.1	2167.1	2158.0	2167.1	2169.3
7.5°	2153.5	2151.2	2142.1	2153.5	2155.7
10°	2130.8	2128.5	2121.7	2130.8	2135.3
12.5°	2103.6	2101.3	2096.8	2110.4	2110.4
15°	2069.6	2069.6	2067.3	2080.9	2083.2
17.5°	2031.1	2031.1	2033.3	2049.2	2053.7
20°	1988.0	1988.0	1997.1	2022.0	2031.1
22.5°	1935.9	1940.4	1958.5	1992.5	2008.4
25°	1883.7	1890.5	1915.5	1969.9	1992.5
27.5°	1824.8	1836.1	1876.9	1951.7	1983.5
30°	1761.3	1777.2	1838.4	1935.9	1972.1
32.5°	1693.3	1716.0	1802.1	1915.5	1956.3
35°	1620.8	1657.0	1768.1	1892.8	1938.1
37.5°	1555.0	1591.3	1729.6	1865.6	1915.5
40°	1478.0	1523.3	1684.2	1833.9	1883.7
42.5°	1400.9	1462.1	1636.6	1793.1	1849.7
45°	1323.8	1394.1	1582.2	1743.2	1797.6
47.5°	1242.2	1321.6	1521.0	1684.2	1738.6
50°	1160.6	1253.5	1453.0	1616.2	1666.1
52.5°	1081.3	1178.7	1376.0	1534.6	1580.0
55°	999.7	1097.1	1292.1	1441.7	1487.0
57.5°	906.7	1022.3	1203.7	1339.7	1376.0
60°	827.4	927.1	1103.9	1230.9	1274.0
62.5°	736.7	841.0	999.7	1124.3	1156.1
65°	657.4	743.5	897.7	1004.2	1031.4
67.5°	564.4	652.8	795.7	884.1	904.5
70°	471.5	559.9	684.6	768.5	782.1
72.5°	387.6	471.5	580.3	648.3	659.6
75°	301.5	383.1	473.8	528.2	532.7
77.5°	228.9	301.5	374.0	412.6	414.8
80°	156.4	219.9	283.4	287.9	274.3
82.5°	99.7	151.9	183.6	176.8	176.8
85°	54.4	92.9	97.5	97.5	92.9
87.5°	22.7	36.3	36.3	34.0	34.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)