

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: P220285

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220285
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35867)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: Z3-WD-5L35-LD5-UNV-24
Description: CLASS Z3 2X4 RECESSED LED LUMIANIRE
WITH A CLEAR SMOOTH ROUND LENS & ROUND PERF INLAY
Light Source: (168) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

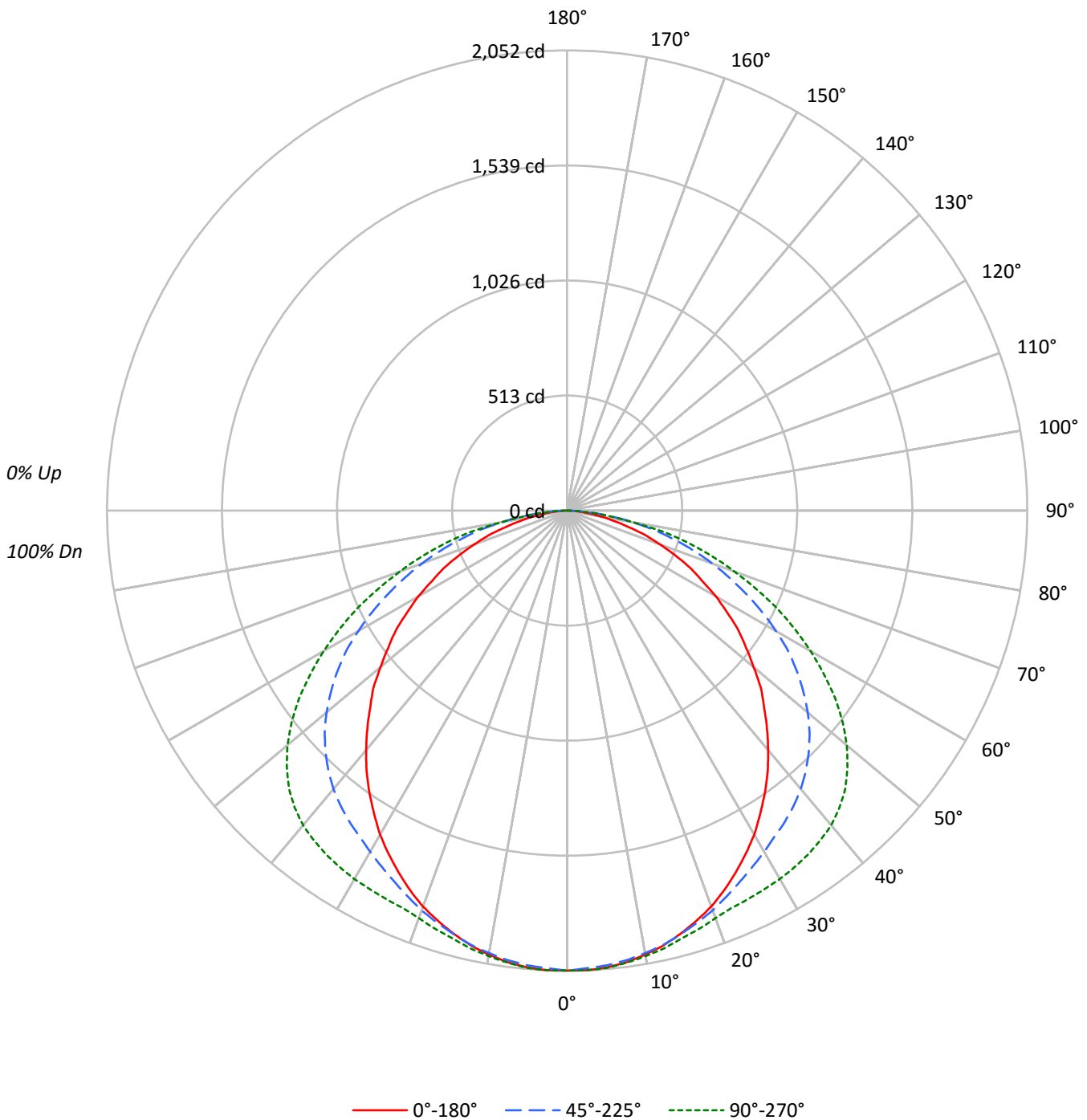
Lumens per Lamp: N/A
Luminaire Lumens: 6361.6 lumens
Efficiency: N/A
Efficacy: 108.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.4 / 1.46
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	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					100			
1	108	103	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83					83			
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	68					68			
3	89	78	70	63	87	77	69	63	74	67	62	71	65	60	68	64	59	57					57			
4	81	69	60	53	79	68	59	53	65	58	52	63	56	51	61	55	51	48					48			
5	75	61	52	45	73	60	52	45	58	51	45	56	49	44	54	48	44	41					41			
6	69	55	46	39	67	54	46	39	52	45	39	51	44	39	49	43	38	36					36			
7	64	50	41	35	62	49	41	34	48	40	34	46	39	34	45	38	34	32					32			
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30	28					28			
9	55	42	33	28	54	41	33	27	40	32	27	39	32	27	38	32	27	25					25			
10	52	38	30	25	50	38	30	25	37	30	25	36	29	25	35	29	24	23					23			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2760	2760	2760
5°	2762	2749	2765
10°	2747	2738	2756
15°	2722	2725	2750
20°	2691	2717	2769
25°	2642	2709	2837
30°	2592	2729	2948
35°	2524	2781	3075
40°	2449	2847	3217
45°	2364	2899	3338
50°	2273	2932	3407
55°	2191	2935	3424
60°	2062	2897	3373
65°	1934	2807	3291
70°	1730	2702	3121
75°	1473	2545	2911
80°	1177	2283	2283
85°	840	1644	1575



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.9	3.0
10°-20°	554.0	8.7
20°-30°	848.4	13.3
30°-40°	1063.6	16.7
40°-50°	1162.9	18.3
50°-60°	1091.9	17.2
60°-70°	843.1	13.3
70°-80°	485.0	7.6
80°-90°	118.9	1.9
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°	1596.2	25.1
0°-40°	2659.8	41.8
0°-60°	4914.6	77.3
0°-90°	6361.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6361.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2052	2052	2052	2052	2052	
5°	2045	2040	2036	2042	2047	194
15°	1954	1956	1956	1972	1974	551
25°	1780	1791	1825	1884	1911	820
35°	1537	1571	1693	1827	1872	961
45°	1242	1319	1523	1696	1754	960
55°	934	1040	1251	1412	1460	830
65°	608	712	882	997	1034	596
75°	283	379	490	549	560	306
85°	54	100	106	102	102	68
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2051.5	2051.5	2051.5	2051.5	2051.5
2.5°	2051.5	2049.2	2042.4	2049.2	2051.5
5°	2044.7	2040.1	2035.6	2042.4	2046.9
7.5°	2031.1	2028.8	2022.0	2033.3	2033.3
10°	2010.7	2008.4	2003.9	2015.2	2017.5
12.5°	1985.7	1983.5	1983.5	1997.1	1999.3
15°	1954.0	1956.3	1956.3	1972.1	1974.4
17.5°	1917.7	1917.7	1926.8	1947.2	1956.3
20°	1879.2	1881.5	1897.3	1922.3	1933.6
22.5°	1831.6	1840.7	1861.1	1901.9	1917.7
25°	1779.5	1790.8	1824.8	1883.7	1910.9
27.5°	1725.0	1740.9	1790.8	1870.1	1904.1
30°	1668.4	1688.8	1756.8	1858.8	1897.3
32.5°	1602.6	1629.8	1722.8	1842.9	1886.0
35°	1536.9	1570.9	1693.3	1827.1	1872.4
37.5°	1468.9	1507.4	1659.3	1802.1	1854.3
40°	1394.1	1448.5	1620.8	1774.9	1831.6
42.5°	1319.3	1385.0	1575.4	1740.9	1797.6
45°	1242.2	1319.3	1523.3	1695.6	1754.5
47.5°	1171.9	1253.5	1466.6	1638.9	1695.6
50°	1085.8	1187.8	1400.9	1573.2	1627.6
52.5°	1006.5	1117.5	1328.4	1498.4	1548.2
55°	933.9	1040.5	1251.3	1412.2	1459.8
57.5°	845.5	961.1	1169.7	1319.3	1357.8
60°	766.2	879.5	1076.7	1215.0	1253.5
62.5°	677.8	804.7	981.5	1110.7	1144.7
65°	607.5	711.8	881.8	997.4	1033.7
67.5°	521.4	625.6	784.3	886.3	911.3
70°	439.8	539.5	686.8	773.0	793.4
72.5°	367.2	455.6	589.4	659.6	677.8
75°	283.4	378.6	489.6	548.6	559.9
77.5°	215.3	299.2	394.4	433.0	442.0
80°	151.9	228.9	294.7	310.6	294.7
82.5°	97.5	160.9	201.7	192.7	185.9
85°	54.4	99.7	106.5	102.0	102.0
87.5°	22.7	36.3	36.3	34.0	36.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)