

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: P220229

Luminaire Tested: **R3-WD-5L35-LD5-UNV-24**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220229
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35863)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: R3-WD-5L35-LD5-UNV-24
Description: CLASS R3 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: 6400.3 lumens
Efficiency: N/A
Efficacy: 109.2 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.38 / 1.44
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

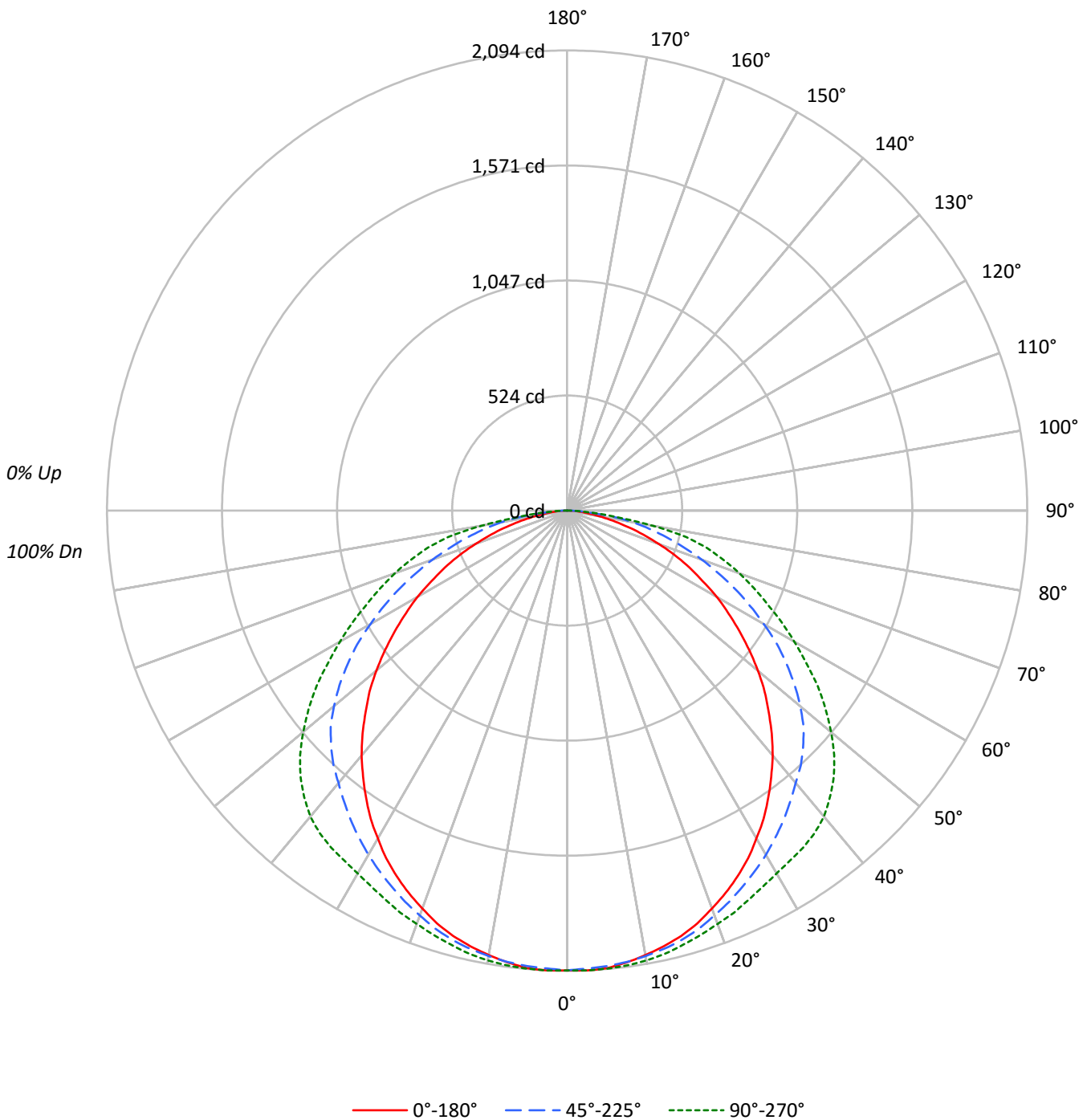
Input Watts (W): 58.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	103	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	69
3	89	79	70	63	87	77	69	63	74	67	62	71	65	61	69	64	60	57
4	82	69	60	53	79	68	60	53	65	58	52	63	57	52	61	55	51	49
5	75	62	53	46	73	61	52	46	58	51	45	56	50	44	55	49	44	42
6	69	55	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	26
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°	2815	2815	2815
5°	2823	2811	2826
10°	2806	2812	2840
15°	2791	2817	2848
20°	2759	2808	2866
25°	2726	2803	2901
30°	2677	2810	2962
35°	2621	2822	3075
40°	2556	2843	3193
45°	2467	2890	3265
50°	2372	2899	3283
55°	2244	2861	3265
60°	2117	2782	3215
65°	1956	2685	3197
70°	1739	2559	3282
75°	1473	2428	3418
80°	1159	2354	3056
85°	840	1575	1749



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	198.5	3.1
10°-20°	571.4	8.9
20°-30°	873.9	13.7
30°-40°	1080.7	16.9
40°-50°	1163.7	18.2
50°-60°	1068.3	16.7
60°-70°	820.1	12.8
70°-80°	499.2	7.8
80°-90°	124.6	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°	1643.8	25.7
0°-40°	2724.5	42.6
0°-60°	4956.5	77.4
0°-90°	6400.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6400.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2092	2092	2092	2092	2092	
5°	2090	2086	2081	2090	2092	198
15°	2004	2008	2022	2042	2045	565
25°	1836	1856	1888	1940	1954	845
35°	1596	1625	1718	1827	1872	998
45°	1297	1351	1519	1666	1716	1001
55°	957	1034	1220	1351	1392	857
65°	614	696	843	963	1004	607
75°	283	356	467	603	657	304
85°	54	86	102	106	113	68
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2092.3	2092.3	2092.3	2092.3	2092.3
2.5°	2094.5	2092.3	2085.5	2092.3	2094.5
5°	2090.0	2085.5	2080.9	2090.0	2092.3
7.5°	2074.1	2074.1	2071.9	2085.5	2087.7
10°	2053.7	2058.3	2058.3	2076.4	2078.7
12.5°	2031.1	2035.6	2042.4	2062.8	2065.1
15°	2003.9	2008.4	2022.0	2042.4	2044.7
17.5°	1969.9	1978.9	1994.8	2017.5	2024.3
20°	1926.8	1942.7	1960.8	1994.8	2001.6
22.5°	1883.7	1901.9	1926.8	1965.3	1981.2
25°	1836.1	1856.5	1888.3	1940.4	1954.0
27.5°	1784.0	1804.4	1849.7	1908.7	1929.1
30°	1722.8	1745.5	1808.9	1876.9	1906.4
32.5°	1663.8	1686.5	1763.6	1849.7	1888.3
35°	1595.8	1625.3	1718.2	1827.1	1872.4
37.5°	1525.6	1557.3	1668.4	1804.4	1849.7
40°	1455.3	1491.6	1618.5	1772.7	1818.0
42.5°	1378.2	1421.3	1573.2	1722.8	1770.4
45°	1296.6	1351.0	1518.8	1666.1	1716.0
47.5°	1219.5	1276.2	1459.8	1604.9	1648.0
50°	1133.4	1199.1	1385.0	1527.8	1568.6
52.5°	1045.0	1122.1	1305.7	1448.5	1482.5
55°	956.6	1033.7	1219.5	1351.0	1391.8
57.5°	870.5	958.9	1133.4	1258.1	1289.8
60°	786.6	870.5	1033.7	1156.1	1194.6
62.5°	695.9	786.6	938.5	1060.9	1099.4
65°	614.3	695.9	843.3	963.4	1004.2
67.5°	530.4	607.5	743.5	865.9	918.1
70°	442.0	519.1	650.6	779.8	834.2
72.5°	362.7	433.0	555.4	693.6	745.8
75°	283.4	355.9	467.0	603.0	657.4
77.5°	213.1	278.8	383.1	512.3	555.4
80°	149.6	210.8	303.8	383.1	394.4
82.5°	97.5	147.3	199.5	222.1	224.4
85°	54.4	86.1	102.0	106.5	113.3
87.5°	22.7	29.5	38.5	40.8	38.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)