

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: P220234

Luminaire Tested: **R3-WD-5L40-LD5-UNV-24**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220234
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-5L40-LD5-UNV-24
Description: CLASS R3 2X4 RECESSED LED LUMIANIRE
WITH A CLEAR SMOOTH ROUND LENS & ROUND PERF INLAY
Light Source: (168) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6702.3 lumens
Efficiency: N/A
Efficacy: 114.4 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

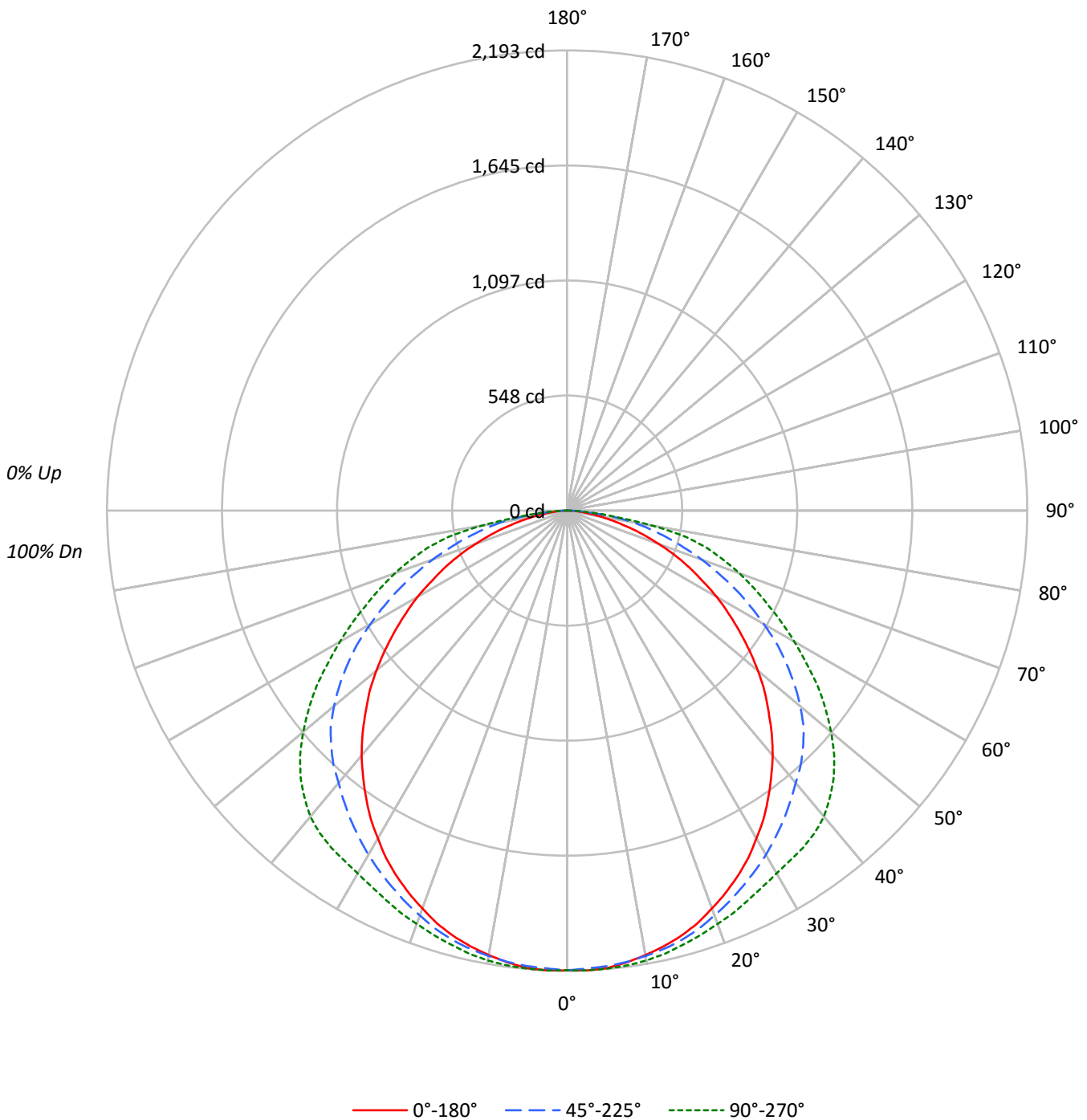
Input Watts (W): 58.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2948	2948	2948
5°	2956	2943	2959
10°	2938	2945	2974
15°	2923	2949	2982
20°	2889	2940	3001
25°	2854	2935	3038
30°	2803	2943	3102
35°	2745	2955	3221
40°	2677	2977	3344
45°	2584	3026	3419
50°	2484	3036	3438
55°	2350	2996	3419
60°	2217	2913	3366
65°	2048	2811	3348
70°	1821	2680	3436
75°	1542	2542	3579
80°	1214	2465	3200
85°	880	1649	1832



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	207.9	3.1
10°-20°	598.4	8.9
20°-30°	915.1	13.7
30°-40°	1131.7	16.9
40°-50°	1218.6	18.2
50°-60°	1118.7	16.7
60°-70°	858.7	12.8
70°-80°	522.7	7.8
80°-90°	130.5	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°	1721.4	25.7
0°-40°	2853.0	42.6
0°-60°	5190.4	77.4
0°-90°	6702.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6702.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2191	2191	2191	2191	2191	
5°	2189	2184	2179	2189	2191	208
15°	2098	2103	2117	2139	2141	591
25°	1923	1944	1977	2032	2046	885
35°	1671	1702	1799	1913	1961	1045
45°	1358	1415	1590	1745	1797	1048
55°	1002	1082	1277	1415	1458	897
65°	643	729	883	1009	1052	636
75°	297	373	489	631	688	319
85°	57	90	107	112	119	71
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2191.0	2191.0	2191.0	2191.0	2191.0
2.5°	2193.4	2191.0	2183.9	2191.0	2193.4
5°	2188.6	2183.9	2179.1	2188.6	2191.0
7.5°	2172.0	2172.0	2169.6	2183.9	2186.2
10°	2150.6	2155.4	2155.4	2174.4	2176.7
12.5°	2126.9	2131.6	2138.8	2160.1	2162.5
15°	2098.4	2103.2	2117.4	2138.8	2141.1
17.5°	2062.8	2072.3	2088.9	2112.6	2119.8
20°	2017.7	2034.3	2053.3	2088.9	2096.0
22.5°	1972.6	1991.6	2017.7	2058.1	2074.7
25°	1922.7	1944.1	1977.3	2031.9	2046.2
27.5°	1868.2	1889.5	1937.0	1998.7	2020.1
30°	1804.1	1827.8	1894.3	1965.5	1996.3
32.5°	1742.3	1766.1	1846.8	1937.0	1977.3
35°	1671.1	1702.0	1799.3	1913.3	1960.7
37.5°	1597.5	1630.8	1747.1	1889.5	1937.0
40°	1524.0	1561.9	1694.9	1856.3	1903.8
42.5°	1443.2	1488.3	1647.4	1804.1	1853.9
45°	1357.8	1414.8	1590.4	1744.7	1796.9
47.5°	1277.1	1336.4	1528.7	1680.6	1725.7
50°	1186.9	1255.7	1450.4	1599.9	1642.6
52.5°	1094.3	1175.0	1367.3	1516.8	1552.4
55°	1001.7	1082.4	1277.1	1414.8	1457.5
57.5°	911.5	1004.1	1186.9	1317.4	1350.7
60°	823.7	911.5	1082.4	1210.6	1251.0
62.5°	728.7	823.7	982.7	1110.9	1151.3
65°	643.3	728.7	883.0	1008.8	1051.6
67.5°	555.5	636.2	778.6	906.8	961.4
70°	462.9	543.6	681.3	816.6	873.5
72.5°	379.8	453.4	581.6	726.4	781.0
75°	296.7	372.7	489.0	631.4	688.4
77.5°	223.1	292.0	401.2	536.5	581.6
80°	156.7	220.8	318.1	401.2	413.0
82.5°	102.1	154.3	208.9	232.6	235.0
85°	57.0	90.2	106.8	111.6	118.7
87.5°	23.7	30.9	40.4	42.7	40.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)