

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: P220205

Luminaire Tested: **R3-WL-4L40-LD5-UNV-24**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220205
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35861)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: R3-WL-4L40-LD5-UNV-24
Description: CLASS R3 2X4 RECESSED LED LUMIANIRE
WITH A FROSTED PRISMATIC ROUND LENS
Light Source: (168) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

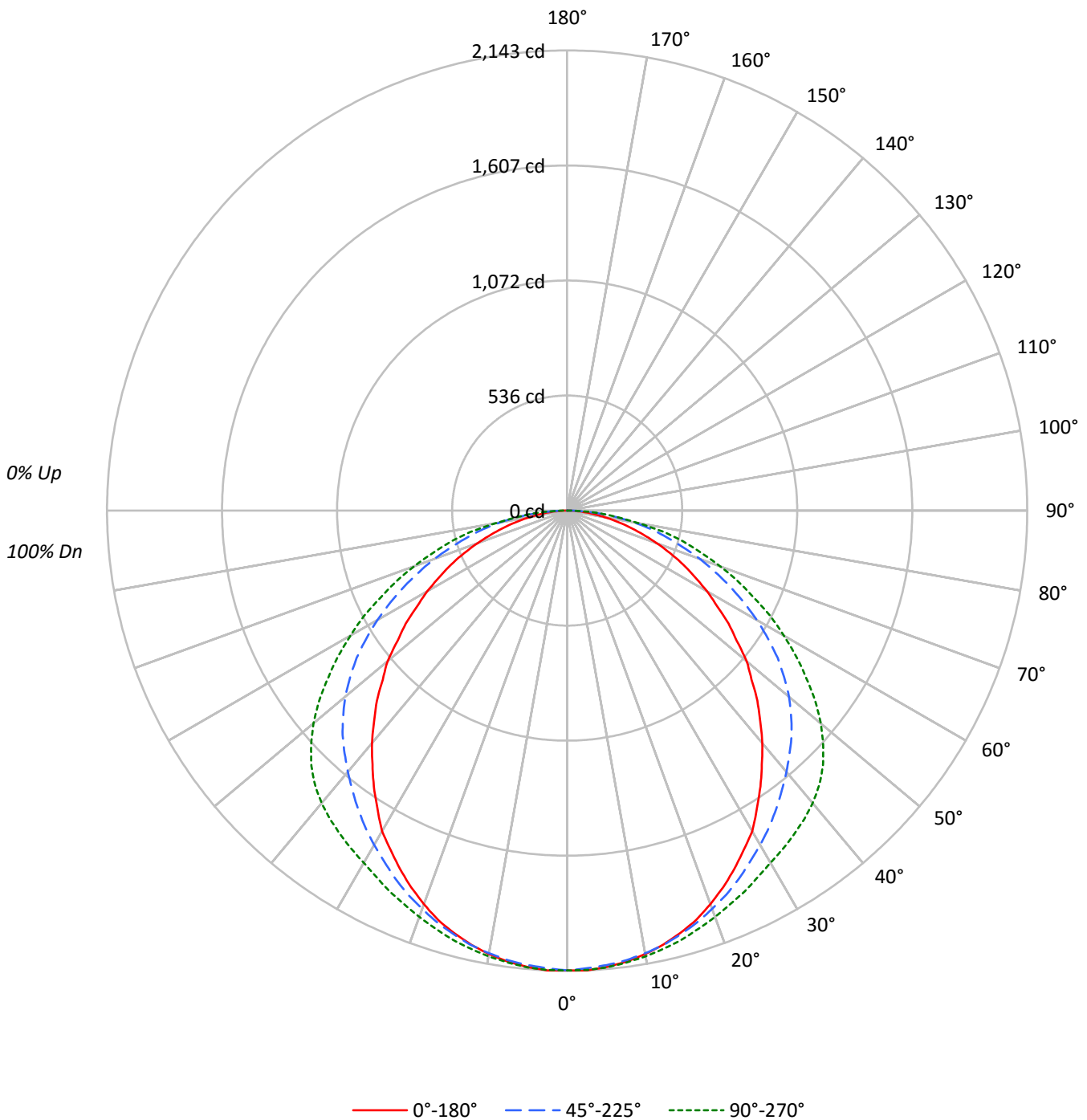
Lumens per Lamp: N/A
Luminaire Lumens: 6329.7 lumens
Efficiency: N/A
Efficacy: 105.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.33 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 59.8
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	93	97	93	90	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	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	47	40	67	55	46	40	53	45	39	51	44	39	50	43	39	37
7	64	50	41	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	38	31	25	37	30	25	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2881	2881	2881
5°	2881	2869	2884
10°	2865	2860	2880
15°	2837	2846	2881
20°	2793	2826	2883
25°	2734	2809	2905
30°	2679	2793	2943
35°	2578	2788	3025
40°	2484	2790	3124
45°	2384	2815	3205
50°	2285	2824	3228
55°	2153	2807	3190
60°	2024	2746	3135
65°	1901	2662	3055
70°	1747	2580	2984
75°	1579	2494	2919
80°	1380	2452	2614
85°	1196	2200	2425



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	202.4	3.2
10°-20°	578.2	9.1
20°-30°	874.5	13.8
30°-40°	1066.5	16.8
40°-50°	1135.1	17.9
50°-60°	1040.5	16.4
60°-70°	799.8	12.6
70°-80°	484.5	7.7
80°-90°	148.2	2.3
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°	1655.1	26.1
0°-40°	2721.6	43.0
0°-60°	4897.1	77.4
0°-90°	6329.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6329.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2141	2141	2141	2141	2141	
5°	2133	2131	2124	2135	2135	202
15°	2036	2039	2043	2062	2068	574
25°	1842	1856	1892	1938	1957	848
35°	1569	1607	1697	1802	1842	981
45°	1253	1312	1479	1636	1684	965
55°	918	997	1196	1326	1360	819
65°	597	673	836	937	960	590
75°	304	371	480	551	562	323
85°	78	115	142	159	157	89
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2141.3	2141.3	2141.3	2141.3	2141.3
2.5°	2143.4	2139.2	2132.9	2141.3	2141.3
5°	2132.9	2130.8	2124.5	2135.0	2135.0
7.5°	2118.2	2116.2	2112.0	2124.5	2122.4
10°	2097.3	2095.2	2093.1	2107.8	2107.8
12.5°	2070.1	2070.1	2072.2	2086.8	2088.9
15°	2036.5	2038.6	2042.8	2061.7	2068.0
17.5°	1998.8	2000.9	2011.4	2036.5	2040.7
20°	1950.6	1956.9	1973.7	2007.2	2013.5
22.5°	1898.3	1908.7	1936.0	1973.7	1984.2
25°	1841.7	1856.3	1892.0	1938.1	1956.9
27.5°	1780.9	1797.7	1843.8	1902.4	1923.4
30°	1724.3	1741.1	1797.7	1871.0	1894.1
32.5°	1644.7	1674.1	1749.5	1835.4	1868.9
35°	1569.3	1607.0	1697.1	1801.9	1841.7
37.5°	1489.7	1537.9	1642.6	1770.4	1812.3
40°	1414.3	1464.5	1588.2	1730.6	1778.8
42.5°	1330.5	1389.1	1533.7	1686.6	1736.9
45°	1252.9	1311.6	1479.2	1636.4	1684.5
47.5°	1164.9	1234.1	1414.3	1577.7	1617.5
50°	1091.6	1156.6	1349.3	1500.2	1542.1
52.5°	995.2	1081.1	1273.9	1416.4	1456.2
55°	917.7	997.3	1196.4	1326.3	1359.8
57.5°	827.6	924.0	1108.4	1236.2	1265.5
60°	752.2	836.0	1020.4	1137.7	1164.9
62.5°	670.5	760.6	928.2	1037.1	1068.6
65°	597.1	672.6	836.0	936.6	959.6
67.5°	519.6	597.1	745.9	838.1	861.1
70°	444.2	525.9	655.8	739.6	758.5
72.5°	370.9	442.1	563.6	645.3	655.8
75°	303.8	370.9	479.8	551.0	561.5
77.5°	240.9	301.7	400.2	456.8	460.9
80°	178.1	236.8	316.4	345.7	337.3
82.5°	125.7	171.8	230.5	236.8	232.6
85°	77.5	115.2	142.5	159.2	157.1
87.5°	33.5	52.4	73.3	69.1	73.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)