

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: P220220

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220220
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35862)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: R3-WG-5L40-LD5-UNV-24
Description: CLASS R3 2X4 RECESSED LED LUMIANIRE
WITH A CLEAR SMOOTH ROUND LENS & RECTANGULAR PERF INLAY
Light Source: (168) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6729.3 lumens
Efficiency: N/A
Efficacy: 114.8 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.4 / 1.46
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

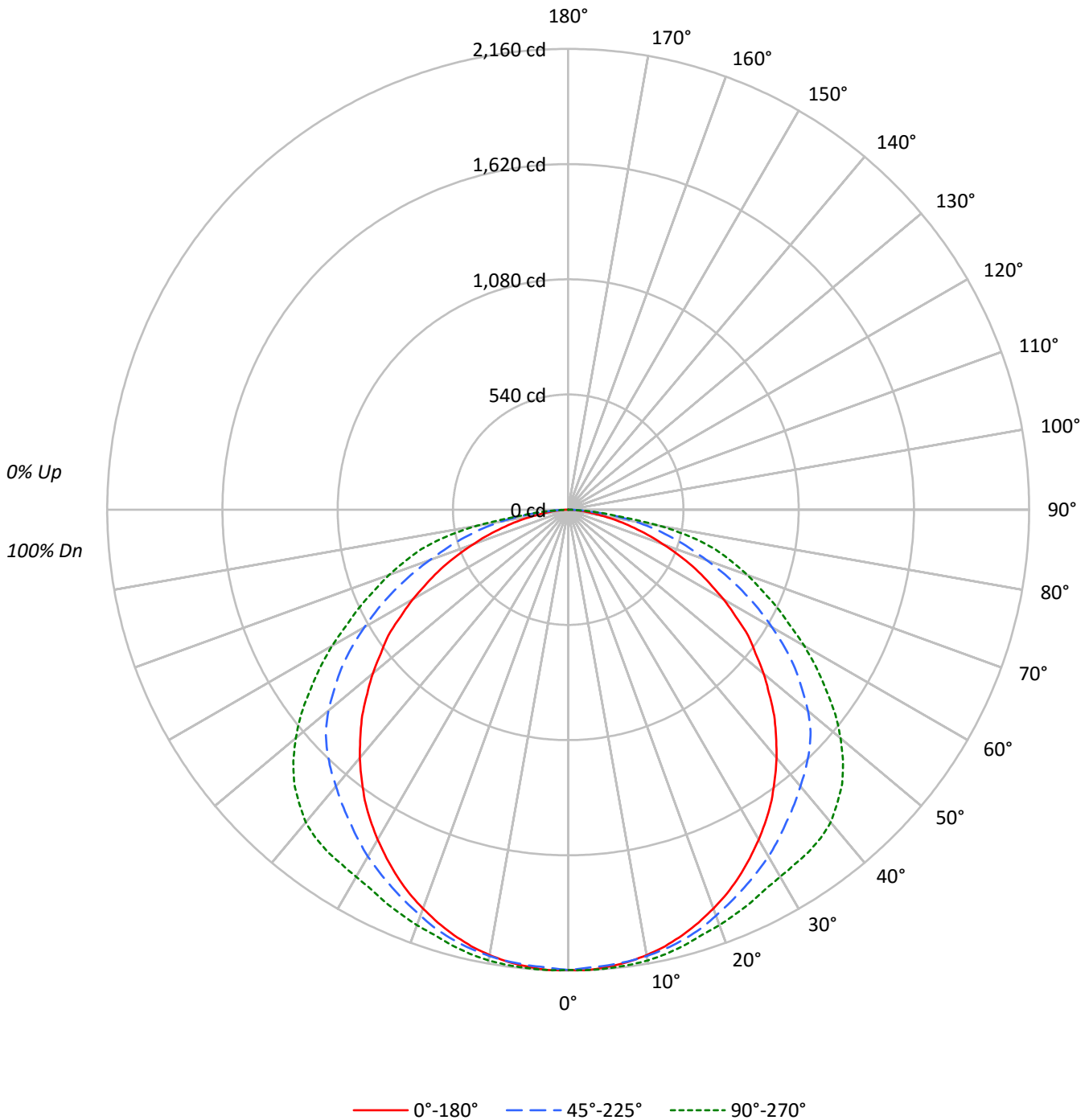
Input Watts (W): 58.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	95	88	81	76	84	79	74	81	76	72	78	74	71	68
3	89	78	70	63	87	77	69	63	74	67	61	71	65	60	68	63	59	57
4	81	69	60	53	79	68	59	53	65	58	52	63	56	51	61	55	51	48
5	75	61	52	45	73	60	52	45	58	51	45	56	49	44	54	48	44	41
6	69	55	46	39	67	54	46	39	52	45	39	51	44	39	49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	38	34	32
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30	28
9	55	42	33	28	54	41	33	28	40	33	27	39	32	27	38	32	27	25
10	52	38	30	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2903	2903	2903
5°	2905	2895	2914
10°	2896	2903	2932
15°	2877	2906	2943
20°	2848	2899	2967
25°	2816	2900	3013
30°	2773	2917	3087
35°	2729	2932	3221
40°	2668	2973	3361
45°	2597	3040	3455
50°	2504	3071	3488
55°	2417	3046	3464
60°	2261	2970	3437
65°	2101	2864	3431
70°	1868	2708	3511
75°	1592	2616	3702
80°	1232	2483	3421
85°	880	1649	2052



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.6	3.0
10°-20°	589.6	8.8
20°-30°	904.5	13.4
30°-40°	1126.6	16.7
40°-50°	1224.7	18.2
50°-60°	1135.1	16.9
60°-70°	875.2	13.0
70°-80°	534.1	7.9
80°-90°	134.8	2.0
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°	1698.8	25.2
0°-40°	2825.4	42.0
0°-60°	5185.2	77.1
0°-90°	6729.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6729.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2158	2158	2158	2158	2158	
5°	2151	2151	2144	2155	2158	204
15°	2065	2075	2086	2108	2113	582
25°	1897	1918	1954	2011	2030	873
35°	1662	1690	1785	1911	1961	1038
45°	1365	1415	1598	1759	1816	1050
55°	1030	1099	1298	1438	1476	913
65°	660	743	900	1023	1078	650
75°	306	380	503	646	712	327
85°	57	93	107	123	133	72
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2157.7	2157.7	2157.7	2157.7	2157.7
2.5°	2160.1	2155.4	2148.3	2157.7	2160.1
5°	2150.6	2150.6	2143.5	2155.4	2157.7
7.5°	2138.8	2136.4	2136.4	2148.3	2153.0
10°	2119.8	2119.8	2124.5	2141.1	2145.9
12.5°	2096.0	2098.4	2107.9	2126.9	2131.6
15°	2065.2	2074.7	2086.5	2107.9	2112.6
17.5°	2029.6	2039.1	2060.4	2081.8	2088.9
20°	1989.2	2003.5	2024.8	2060.4	2072.3
22.5°	1946.5	1963.1	1989.2	2034.3	2050.9
25°	1896.6	1918.0	1953.6	2010.6	2029.6
27.5°	1842.0	1865.8	1915.6	1979.7	2003.5
30°	1785.1	1808.8	1877.6	1953.6	1986.8
32.5°	1725.7	1749.5	1832.5	1929.9	1972.6
35°	1661.6	1690.1	1785.1	1910.9	1960.7
37.5°	1590.4	1621.3	1740.0	1889.5	1941.7
40°	1519.2	1554.8	1692.5	1858.7	1913.3
42.5°	1440.9	1490.7	1647.4	1813.6	1865.8
45°	1364.9	1414.8	1597.5	1759.0	1815.9
47.5°	1277.1	1343.5	1540.6	1692.5	1747.1
50°	1196.4	1265.2	1467.0	1618.9	1666.4
52.5°	1106.2	1184.5	1381.5	1533.4	1578.6
55°	1030.2	1099.1	1298.4	1438.5	1476.5
57.5°	930.5	1018.3	1203.5	1338.8	1379.2
60°	840.3	923.4	1103.8	1236.7	1277.1
62.5°	745.4	842.7	1004.1	1129.9	1170.3
65°	659.9	743.0	899.7	1023.1	1077.7
67.5°	565.0	648.0	795.2	923.4	978.0
70°	474.8	557.8	688.4	828.4	892.5
72.5°	389.3	465.3	593.4	733.5	800.0
75°	306.2	379.8	503.2	645.7	712.1
77.5°	230.3	299.1	413.0	546.0	588.7
80°	159.0	223.1	320.5	413.0	441.5
82.5°	102.1	156.7	216.0	249.2	235.0
85°	57.0	92.6	106.8	123.4	132.9
87.5°	26.1	30.9	38.0	42.7	42.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)