

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: P302379

Luminaire Tested: **RX-WO-70L840-UNV-24-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P302379
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1902-133-41)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: RX-WO-70L840-UNV-24-STD
Description: CORELITE CLASS RX 2X2 LED LUMINAIRE.
ROUND LENS, STANDARD LUMEN PACKAGE.
Light Source: (392)4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6795.4 lumens
Efficiency: N/A
Efficacy: 133.2 lumens/watt
Spacing Criteria (0/90/45): 1.38 / 1.43 / 1.51
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

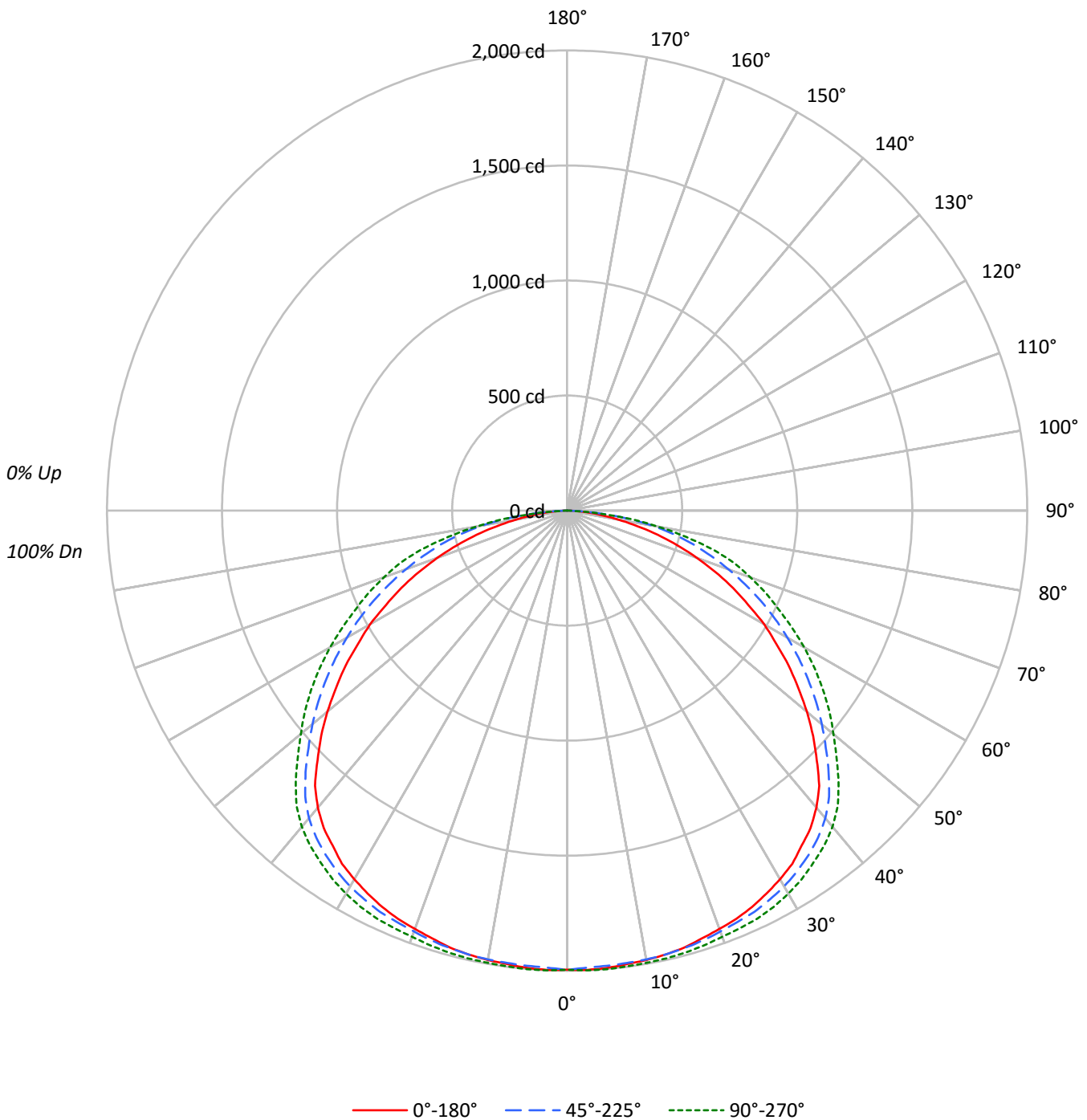
Input Watts (W): 51
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	98	94	105	101	97	93	96	93	90		93	90	87		89	87	85	82
2	98	89	82	76	95	87	81	75	84	78	73		80	76	71		77	73	70	68
3	89	78	69	62	86	76	68	62	73	66	61		70	64	59		68	63	58	56
4	81	68	59	52	79	67	58	52	64	57	51		62	56	50		60	54	50	47
5	74	61	51	45	72	60	51	44	58	50	44		55	49	43		54	48	43	41
6	68	55	45	39	66	54	45	38	52	44	38		50	43	38		48	42	37	35
7	63	49	40	34	61	48	40	34	47	39	33		45	38	33		44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30		41	35	30		40	34	29	27
9	55	41	33	27	53	40	32	27	39	32	27		38	31	26		37	31	26	24
10	51	38	30	24	50	37	29	24	36	29	24		35	29	24		34	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2685	2685	2685
5°	2695	2682	2702
10°	2710	2707	2726
15°	2739	2743	2770
20°	2770	2788	2823
25°	2822	2858	2905
30°	2874	2931	2987
35°	2919	3003	3067
40°	2960	3066	3152
45°	2920	3059	3174
50°	2847	3025	3162
55°	2759	2997	3185
60°	2662	2975	3204
65°	2532	2957	3227
70°	2356	2938	3329
75°	2118	2950	3416
80°	1747	2912	3119
85°	1272	2171	2021



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	190.1	2.8
10°-20°	558.8	8.2
20°-30°	890.0	13.1
30°-40°	1144.1	16.8
40°-50°	1237.2	18.2
50°-60°	1138.1	16.7
60°-70°	907.3	13.4
70°-80°	576.4	8.5
80°-90°	153.6	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°	1638.8	24.1
0°-40°	2782.9	41.0
0°-60°	5158.2	75.9
0°-90°	6795.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6795.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1996	1996	1996	1996	1996	
5°	1996	1996	1986	1998	2000	190
15°	1966	1969	1969	1986	1988	556
25°	1901	1908	1925	1947	1957	877
35°	1777	1797	1828	1862	1867	1114
45°	1535	1562	1608	1651	1668	1183
55°	1176	1210	1278	1336	1358	1049
65°	795	836	929	997	1014	785
75°	407	466	567	643	657	431
85°	82	128	141	141	131	103
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1995.5	1995.5	1995.5	1995.5	1995.5
2.5°	1998.0	1998.0	1988.3	2000.4	2000.4
5°	1995.5	1995.5	1985.8	1998.0	2000.4
7.5°	1988.3	1990.7	1983.4	1995.5	1998.0
10°	1983.4	1985.8	1981.0	1993.1	1995.5
12.5°	1976.1	1978.6	1976.1	1990.7	1993.1
15°	1966.4	1968.9	1968.9	1985.8	1988.3
17.5°	1949.5	1954.3	1959.2	1978.6	1981.0
20°	1934.9	1939.8	1947.1	1968.9	1971.3
22.5°	1920.4	1925.2	1934.9	1961.6	1964.0
25°	1901.0	1908.3	1925.2	1947.1	1956.7
27.5°	1876.7	1891.3	1905.8	1932.5	1942.2
30°	1850.1	1864.6	1886.4	1915.5	1922.8
32.5°	1821.0	1835.5	1859.8	1891.3	1898.6
35°	1777.3	1796.7	1828.2	1862.2	1867.0
37.5°	1738.5	1757.9	1791.9	1828.2	1835.5
40°	1685.2	1709.4	1745.8	1779.7	1794.3
42.5°	1622.1	1646.4	1685.2	1726.4	1740.9
45°	1534.8	1561.5	1607.6	1651.2	1668.2
47.5°	1450.0	1474.2	1525.1	1576.1	1588.2
50°	1360.3	1389.4	1445.1	1498.5	1510.6
52.5°	1265.7	1302.1	1362.7	1418.5	1437.9
55°	1176.0	1209.9	1277.8	1336.0	1357.8
57.5°	1076.6	1117.8	1193.0	1256.0	1275.4
60°	989.3	1025.7	1105.7	1171.1	1190.5
62.5°	887.4	931.1	1018.4	1083.8	1100.8
65°	795.3	836.5	928.7	996.6	1013.5
67.5°	695.9	744.4	836.5	906.8	933.5
70°	598.9	649.8	746.8	819.6	846.2
72.5°	501.9	557.7	654.7	729.8	763.8
75°	407.4	465.5	567.4	642.6	657.1
77.5°	312.8	378.3	475.2	528.6	528.6
80°	225.5	291.0	375.8	390.4	402.5
82.5°	150.3	211.0	257.0	271.6	274.0
85°	82.4	128.5	140.6	140.6	130.9
87.5°	31.5	41.2	29.1	14.5	9.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)