

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: P302409

Luminaire Tested: **RX-WO-70L940-UNV-24-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P302409
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-70L940-UNV-24-STD
Description: CORELITE CLASS RX 2X2 LED LUMINAIRE.
ROUND LENS, STANDARD LUMEN PACKAGE.
Light Source: (392)4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

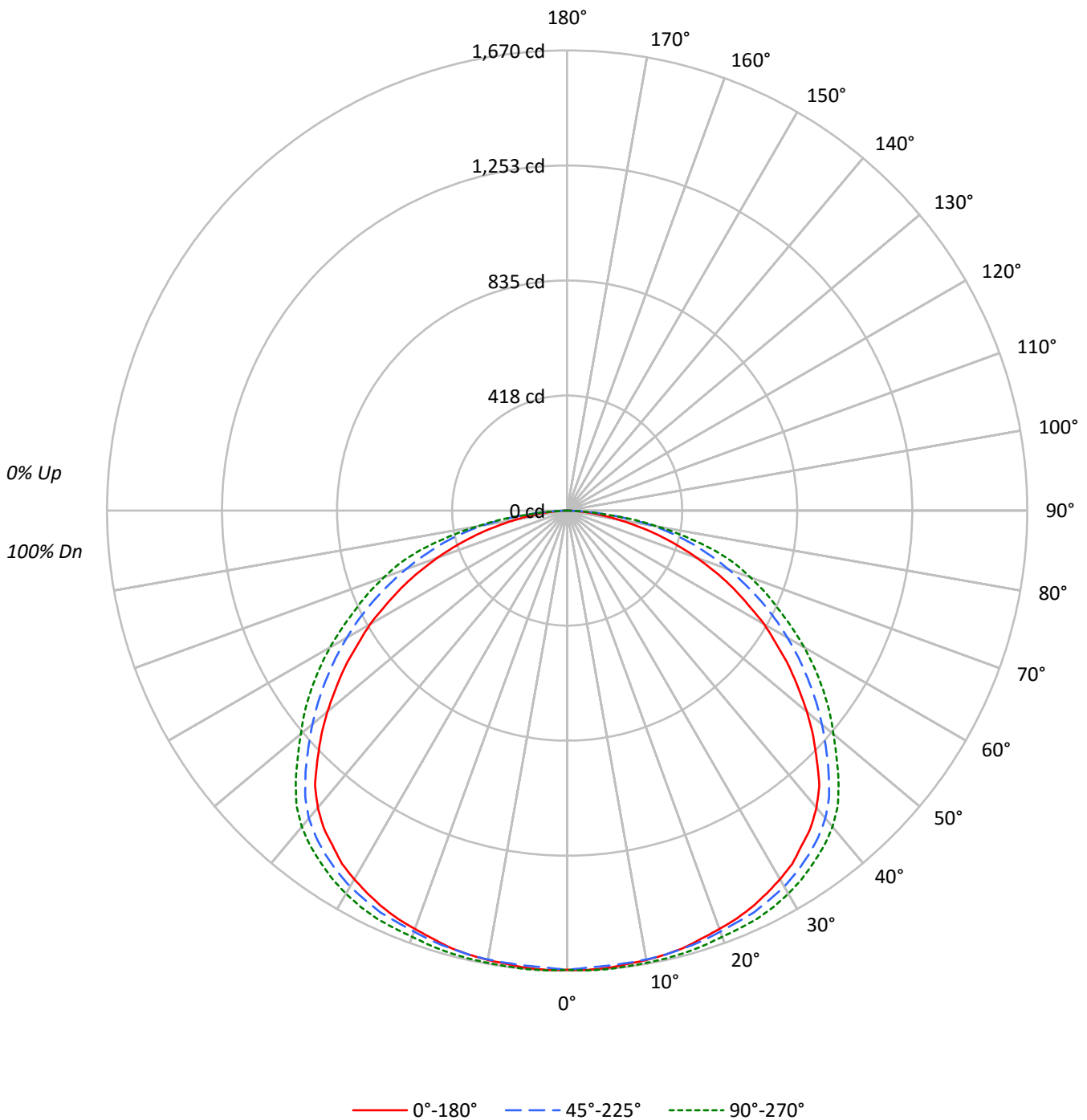
Lumens per Lamp: N/A
Luminaire Lumens: 5674.5 lumens
Efficiency: N/A
Efficacy: 111.3 lumens/watt
Spacing Criteria (0/90/45): 1.38 / 1.43 / 1.51
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	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					100			
1	108	103	98	94	105	101	97	93	96	93	90	93	90	87	89	87	85	82					82			
2	98	89	82	76	95	87	81	75	84	78	73	80	76	71	77	73	70	68					68			
3	89	78	69	62	86	76	68	62	73	66	61	70	64	59	68	63	58	56					56			
4	81	68	59	52	79	67	58	52	64	57	51	62	56	50	60	54	50	47					47			
5	74	61	51	45	72	60	51	44	58	50	44	55	49	43	54	48	43	41					41			
6	68	55	45	39	66	54	45	38	52	44	38	50	43	38	48	42	37	35					35			
7	63	49	40	34	61	48	40	34	47	39	33	45	38	33	44	38	33	31					31			
8	59	45	36	30	57	44	36	30	43	35	30	41	35	30	40	34	29	27					27			
9	55	41	33	27	53	40	32	27	39	32	27	38	31	26	37	31	26	24					24			
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22					22			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2242	2242	2242
5°	2251	2240	2256
10°	2263	2260	2277
15°	2287	2290	2313
20°	2314	2328	2357
25°	2357	2387	2426
30°	2400	2447	2495
35°	2438	2508	2561
40°	2472	2560	2632
45°	2439	2554	2651
50°	2378	2526	2640
55°	2304	2503	2660
60°	2223	2485	2675
65°	2114	2469	2694
70°	1967	2453	2780
75°	1769	2463	2852
80°	1459	2431	2604
85°	1062	1812	1687



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.8	2.8
10°-20°	466.6	8.2
20°-30°	743.2	13.1
30°-40°	955.4	16.8
40°-50°	1033.1	18.2
50°-60°	950.3	16.7
60°-70°	757.6	13.4
70°-80°	481.3	8.5
80°-90°	128.2	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°	1368.5	24.1
0°-40°	2323.9	41.0
0°-60°	4307.3	75.9
0°-90°	5674.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5674.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1666	1666	1666	1666	1666	
5°	1666	1666	1658	1668	1670	159
15°	1642	1644	1644	1658	1660	464
25°	1587	1594	1608	1626	1634	733
35°	1484	1500	1527	1555	1559	930
45°	1282	1304	1342	1379	1393	988
55°	982	1010	1067	1116	1134	876
65°	664	698	776	832	846	655
75°	340	389	474	537	549	360
85°	69	107	117	117	109	86
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1666.4	1666.4	1666.4	1666.4	1666.4
2.5°	1668.4	1668.4	1660.3	1670.4	1670.4
5°	1666.4	1666.4	1658.3	1668.4	1670.4
7.5°	1660.3	1662.3	1656.3	1666.4	1668.4
10°	1656.3	1658.3	1654.2	1664.4	1666.4
12.5°	1650.2	1652.2	1650.2	1662.3	1664.4
15°	1642.1	1644.1	1644.1	1658.3	1660.3
17.5°	1627.9	1632.0	1636.0	1652.2	1654.2
20°	1615.8	1619.8	1625.9	1644.1	1646.1
22.5°	1603.6	1607.7	1615.8	1638.0	1640.1
25°	1587.4	1593.5	1607.7	1625.9	1634.0
27.5°	1567.2	1579.3	1591.5	1613.7	1621.8
30°	1544.9	1557.0	1575.3	1599.6	1605.6
32.5°	1520.6	1532.7	1553.0	1579.3	1585.4
35°	1484.1	1500.3	1526.7	1555.0	1559.1
37.5°	1451.8	1467.9	1496.3	1526.7	1532.7
40°	1407.2	1427.5	1457.8	1486.2	1498.3
42.5°	1354.6	1374.8	1407.2	1441.6	1453.8
45°	1281.7	1303.9	1342.4	1378.9	1393.0
47.5°	1210.8	1231.1	1273.6	1316.1	1326.2
50°	1135.9	1160.2	1206.8	1251.3	1261.4
52.5°	1056.9	1087.3	1137.9	1184.5	1200.7
55°	982.0	1010.4	1067.0	1115.6	1133.9
57.5°	899.0	933.4	996.2	1048.8	1065.0
60°	826.1	856.5	923.3	978.0	994.2
62.5°	741.1	777.5	850.4	905.1	919.2
65°	664.1	698.5	775.5	832.2	846.3
67.5°	581.1	621.6	698.5	757.3	779.5
70°	500.1	542.6	623.6	684.4	706.6
72.5°	419.1	465.7	546.7	609.5	637.8
75°	340.2	388.8	473.8	536.6	548.7
77.5°	261.2	315.9	396.9	441.4	441.4
80°	188.3	243.0	313.8	326.0	336.1
82.5°	125.5	176.2	214.6	226.8	228.8
85°	68.8	107.3	117.4	117.4	109.3
87.5°	26.3	34.4	24.3	12.1	8.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)