

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: P302330

Luminaire Tested: **ZX-WO-70H930-UNV-24-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P302330
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1902-133-13)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: ZX-WO-70H930-UNV-24-STD
Description: CORELITE CLASS RX 2X2 LED LUMINAIRE.
FLAT LENS, HIGH PERFORMANCE LUMEN PACKAGE.
Light Source: (588)3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

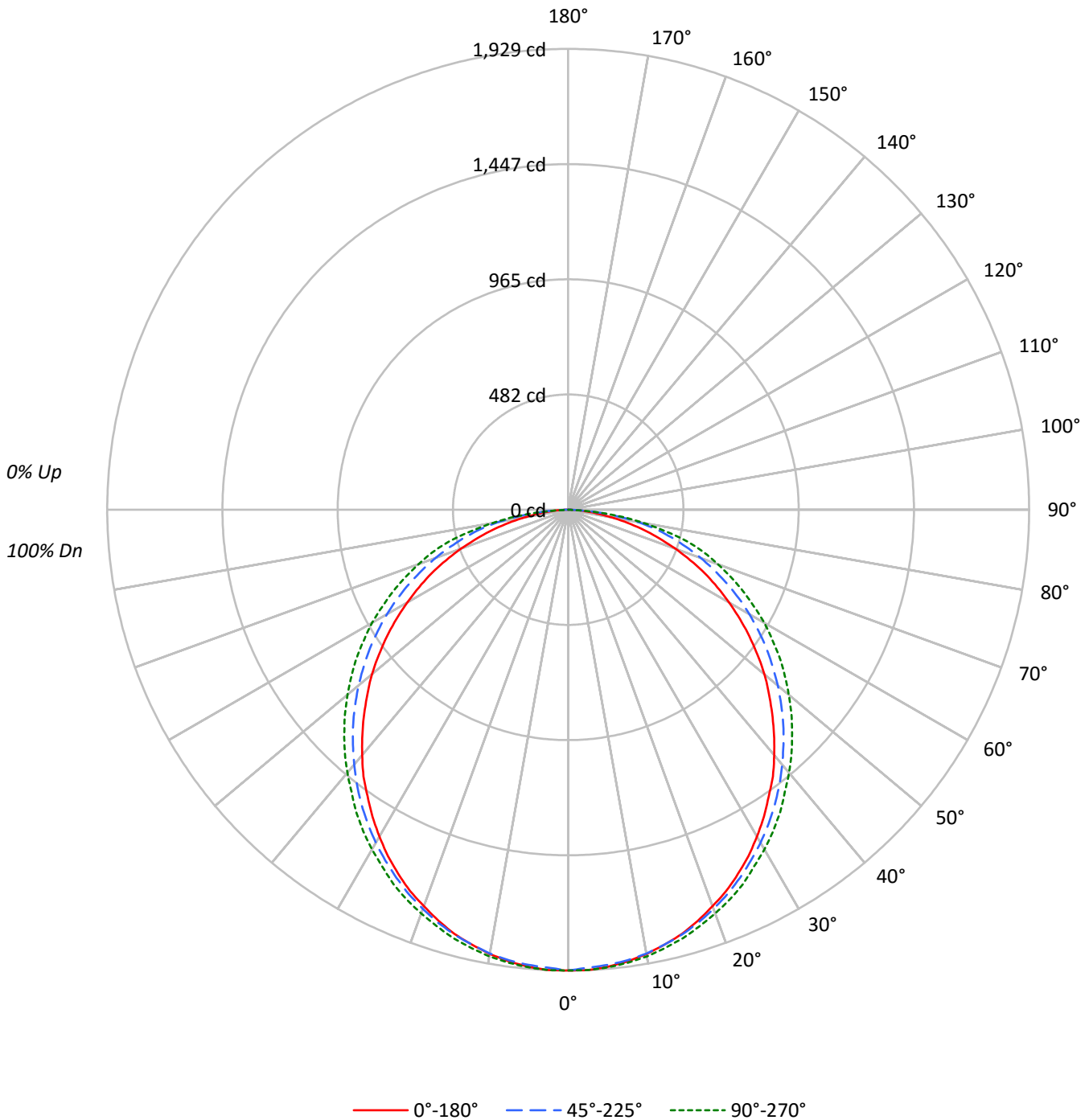
Lumens per Lamp: N/A
Luminaire Lumens: 5613.7 lumens
Efficiency: N/A
Efficacy: 112.5 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 49.9
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	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83					83			
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	68					68			
3	89	78	70	63	87	77	69	63	74	67	62	71	65	61	68	64	60	57					57			
4	82	69	60	54	79	68	60	53	65	58	52	63	57	52	61	55	51	49					49			
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42					42			
6	69	56	47	40	67	55	46	40	53	45	39	51	44	39	50	44	39	37					37			
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32					32			
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	42	35	31	29					29			
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26					26			
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	36	30	25	23					23			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2595	2595	2595
5°	2594	2583	2597
10°	2580	2577	2594
15°	2561	2564	2586
20°	2529	2546	2575
25°	2497	2524	2568
30°	2454	2501	2551
35°	2404	2476	2539
40°	2356	2447	2525
45°	2297	2422	2522
50°	2245	2396	2522
55°	2173	2375	2535
60°	2093	2358	2552
65°	2011	2336	2572
70°	1877	2319	2618
75°	1709	2324	2699
80°	1413	2299	2486
85°	1084	1826	1765



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.4	3.2
10°-20°	520.7	9.3
20°-30°	785.4	14.0
30°-40°	943.0	16.8
40°-50°	980.7	17.5
50°-60°	901.9	16.1
60°-70°	718.8	12.8
70°-80°	455.5	8.1
80°-90°	125.3	2.2
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°	1488.5	26.5
0°-40°	2431.5	43.3
0°-60°	4314.1	76.8
0°-90°	5613.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5613.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1929	1929	1929	1929	1929	
5°	1921	1921	1913	1923	1923	182
15°	1838	1838	1840	1854	1856	518
25°	1682	1690	1700	1724	1730	775
35°	1464	1480	1508	1536	1546	917
45°	1207	1233	1273	1313	1325	932
55°	926	956	1012	1062	1081	828
65°	632	664	734	790	808	622
75°	329	371	447	503	519	346
85°	70	100	118	116	114	84
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1928.6	1928.6	1928.6	1928.6	1928.6
2.5°	1928.6	1928.6	1918.6	1928.6	1928.6
5°	1920.6	1920.6	1912.6	1922.6	1922.6
7.5°	1906.6	1908.6	1902.6	1912.6	1912.6
10°	1888.5	1890.5	1886.5	1898.5	1898.5
12.5°	1864.5	1866.5	1864.5	1878.5	1878.5
15°	1838.4	1838.4	1840.4	1854.4	1856.4
17.5°	1804.3	1808.3	1812.3	1828.4	1828.4
20°	1766.2	1772.2	1778.3	1798.3	1798.3
22.5°	1728.1	1734.2	1742.2	1762.2	1766.2
25°	1682.0	1690.0	1700.1	1724.1	1730.1
27.5°	1633.9	1639.9	1656.0	1682.0	1684.0
30°	1579.8	1589.8	1609.9	1635.9	1641.9
32.5°	1523.6	1537.7	1559.7	1589.8	1595.8
35°	1463.5	1479.5	1507.6	1535.7	1545.7
37.5°	1407.4	1419.4	1451.5	1483.6	1489.6
40°	1341.2	1359.3	1393.3	1429.4	1437.4
42.5°	1275.1	1295.1	1333.2	1369.3	1383.3
45°	1206.9	1233.0	1273.0	1313.1	1325.2
47.5°	1138.7	1166.8	1208.9	1253.0	1267.0
50°	1072.6	1098.6	1144.7	1190.9	1204.9
52.5°	998.4	1028.5	1078.6	1128.7	1142.7
55°	926.2	956.3	1012.4	1062.5	1080.6
57.5°	852.0	886.1	944.3	996.4	1012.4
60°	777.9	813.9	876.1	928.2	948.3
62.5°	703.7	737.8	805.9	858.1	876.1
65°	631.5	663.6	733.8	789.9	807.9
67.5°	553.3	589.4	661.6	719.7	735.8
70°	477.1	513.2	589.4	649.6	665.6
72.5°	399.0	441.1	517.2	575.4	597.4
75°	328.8	370.9	447.1	503.2	519.2
77.5°	254.6	296.7	374.9	415.0	417.0
80°	182.4	230.6	296.7	312.7	320.8
82.5°	120.3	166.4	204.5	224.5	224.5
85°	70.2	100.2	118.3	116.3	114.3
87.5°	26.1	34.1	28.1	20.0	14.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)