

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: P302340

Luminaire Tested: **ZX-WO-70H935-UNV-24-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P302340
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-70H935-UNV-24-STD
Description: CORELITE CLASS RX 2X2 LED LUMINAIRE.
FLAT LENS, HIGH PERFORMANCE LUMEN PACKAGE.
Light Source: (588)3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

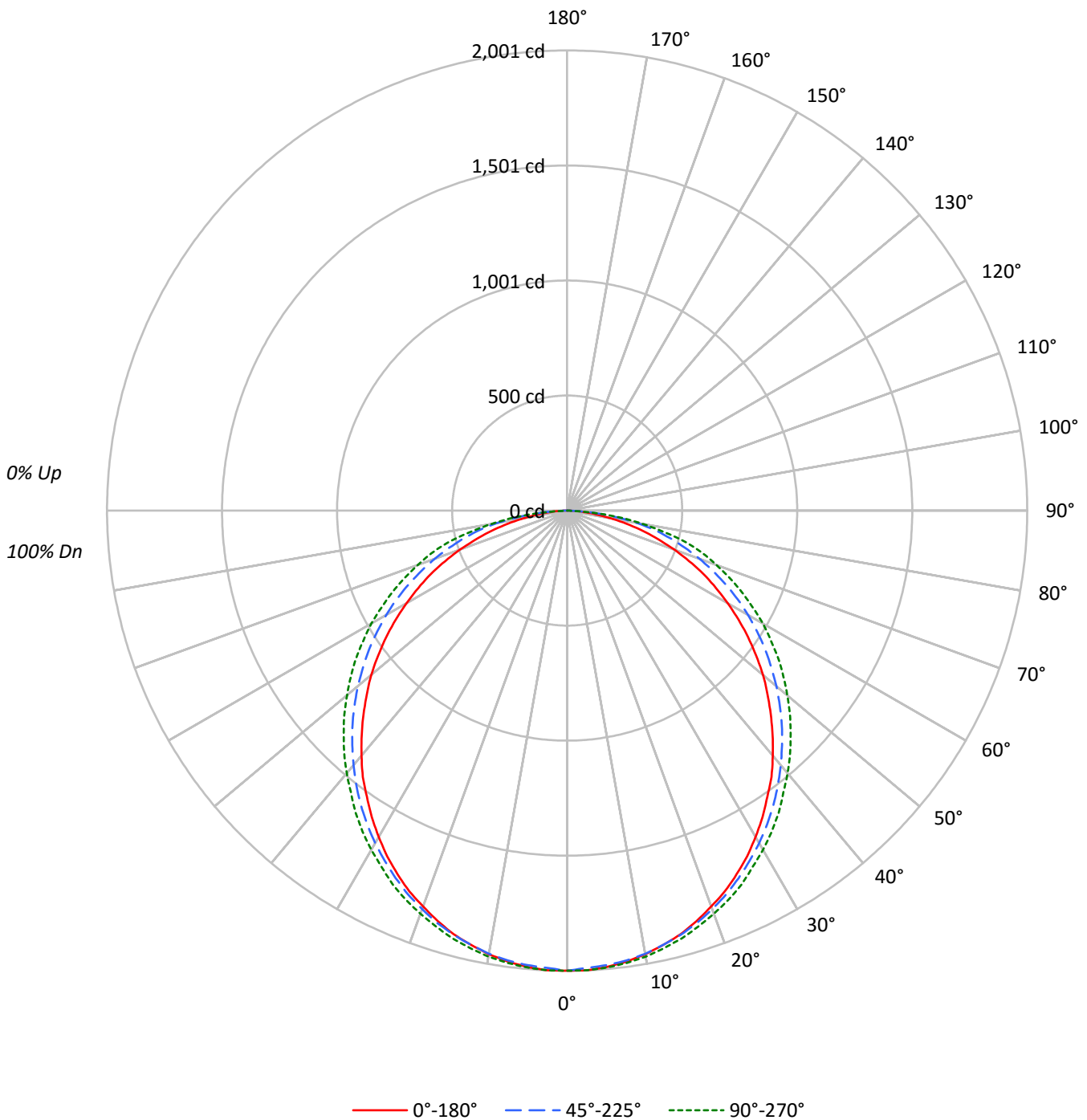
Lumens per Lamp: N/A
Luminaire Lumens: 5823.2 lumens
Efficiency: N/A
Efficacy: 116.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 49.9
Input Voltage (V): 120
Input Current (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	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°	2692	2692	2692
5°	2691	2680	2694
10°	2676	2674	2691
15°	2656	2659	2682
20°	2623	2641	2671
25°	2590	2618	2664
30°	2546	2594	2646
35°	2494	2569	2634
40°	2444	2539	2619
45°	2382	2513	2616
50°	2329	2485	2616
55°	2254	2464	2629
60°	2171	2446	2647
65°	2086	2423	2668
70°	1947	2405	2716
75°	1773	2411	2800
80°	1466	2385	2578
85°	1124	1894	1829



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.2	3.2
10°-20°	540.1	9.3
20°-30°	814.8	14.0
30°-40°	978.2	16.8
40°-50°	1017.3	17.5
50°-60°	935.6	16.1
60°-70°	745.7	12.8
70°-80°	472.5	8.1
80°-90°	130.0	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°	1544.0	26.5
0°-40°	2522.2	43.3
0°-60°	4475.1	76.8
0°-90°	5823.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5823.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2001	2001	2001	2001	2001	
5°	1992	1992	1984	1994	1994	189
15°	1907	1907	1909	1924	1926	537
25°	1745	1753	1764	1788	1795	804
35°	1518	1535	1564	1593	1603	951
45°	1252	1279	1320	1362	1375	967
55°	961	992	1050	1102	1121	859
65°	655	688	761	819	838	646
75°	341	385	464	522	539	359
85°	73	104	123	121	118	87
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2000.6	2000.6	2000.6	2000.6	2000.6
2.5°	2000.6	2000.6	1990.2	2000.6	2000.6
5°	1992.2	1992.2	1983.9	1994.3	1994.3
7.5°	1977.7	1979.8	1973.5	1983.9	1983.9
10°	1959.0	1961.1	1956.9	1969.4	1969.4
12.5°	1934.0	1936.1	1934.0	1948.6	1948.6
15°	1907.0	1907.0	1909.1	1923.6	1925.7
17.5°	1871.6	1875.8	1879.9	1896.6	1896.6
20°	1832.1	1838.4	1844.6	1865.4	1865.4
22.5°	1792.6	1798.8	1807.2	1828.0	1832.1
25°	1744.8	1753.1	1763.5	1788.4	1794.7
27.5°	1694.9	1701.1	1717.7	1744.8	1746.9
30°	1638.7	1649.1	1669.9	1696.9	1703.2
32.5°	1580.5	1595.0	1617.9	1649.1	1655.4
35°	1518.1	1534.7	1563.9	1593.0	1603.4
37.5°	1459.9	1472.3	1505.6	1538.9	1545.1
40°	1391.2	1410.0	1445.3	1482.7	1491.1
42.5°	1322.6	1343.4	1382.9	1420.4	1434.9
45°	1251.9	1278.9	1320.5	1362.1	1374.6
47.5°	1181.2	1210.3	1254.0	1299.7	1314.3
50°	1112.6	1139.6	1187.4	1235.3	1249.8
52.5°	1035.6	1066.8	1118.8	1170.8	1185.4
55°	960.8	992.0	1050.2	1102.2	1120.9
57.5°	883.8	919.2	979.5	1033.6	1050.2
60°	806.9	844.3	908.8	962.8	983.6
62.5°	729.9	765.3	836.0	890.1	908.8
65°	655.1	688.3	761.1	819.4	838.1
67.5°	574.0	611.4	686.3	746.6	763.2
70°	494.9	532.4	611.4	673.8	690.4
72.5°	413.8	457.5	536.5	596.8	619.7
75°	341.1	384.7	463.7	522.0	538.6
77.5°	264.1	307.8	388.9	430.5	432.6
80°	189.2	239.2	307.8	324.4	332.7
82.5°	124.8	172.6	212.1	232.9	232.9
85°	72.8	104.0	122.7	120.6	118.5
87.5°	27.0	35.4	29.1	20.8	14.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)