

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: P302286

Luminaire Tested: **RX-WO-50H940-UNV-24-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P302286
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: RX-WO-50H940-UNV-24-STD
Description: CORELITE CLASS RX 2X2 LED LUMINAIRE.
ROUND LENS, HIGH PERFORMANCE LUMEN PACKAGE.
Light Source: (336)4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

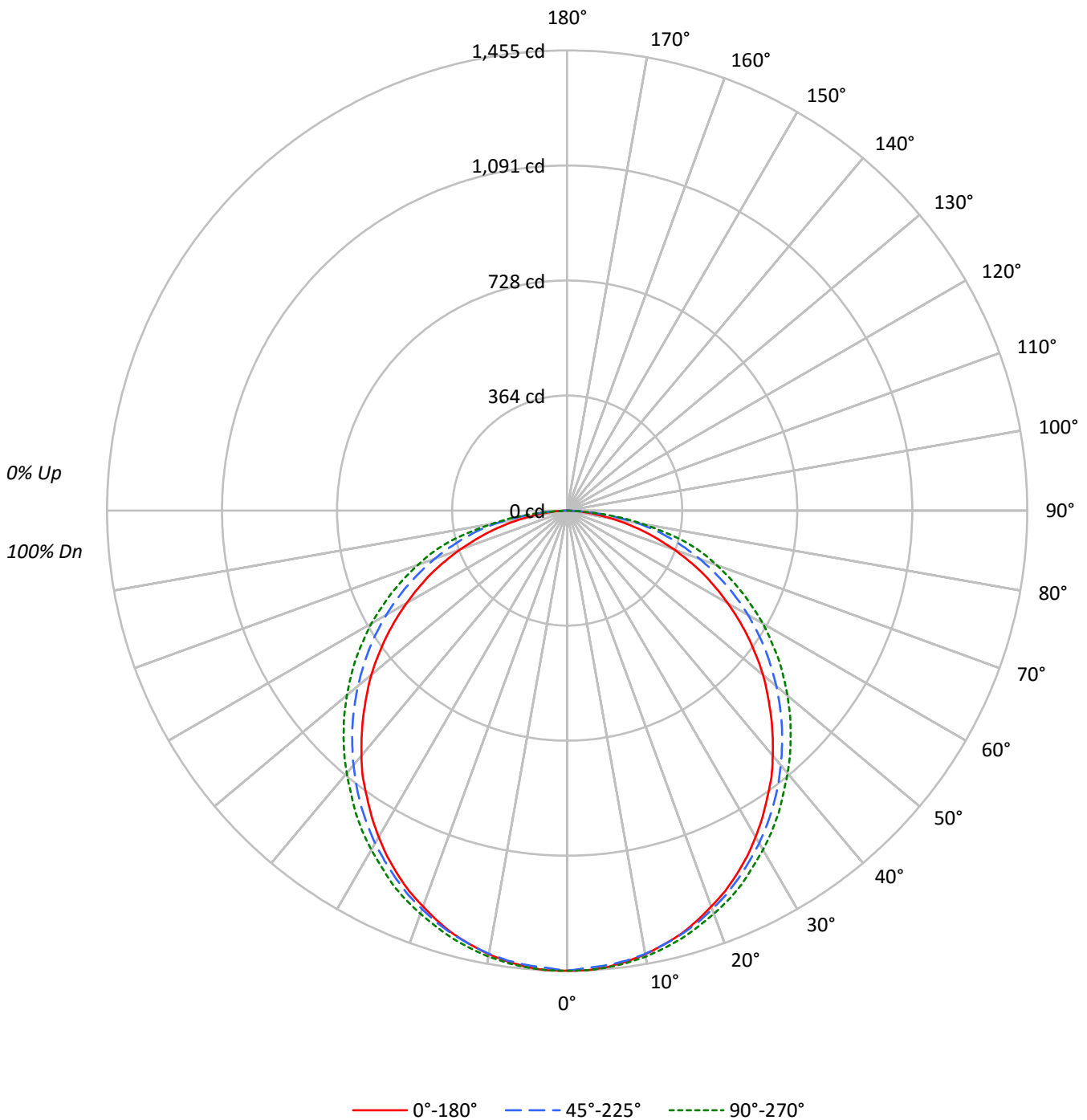
Lumens per Lamp: N/A
Luminaire Lumens: 4234.7 lumens
Efficiency: N/A
Efficacy: 116.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 36.3
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	96	88	81	76	84	79	74		81	76	72		78	74	71	68
3	89	78	70	63	87	77	69	63	74	67	62		71	65	61		68	64	60	57
4	82	69	60	54	79	68	60	53	65	58	52		63	57	52		61	55	51	49
5	75	62	53	46	73	61	52	46	59	51	45		57	50	45		55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	39		51	44	39		50	44	39	37
7	64	50	42	35	62	50	41	35	48	40	35		47	40	35		45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31		43	36	31		42	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28		39	33	28		38	32	28	26
10	52	39	31	26	51	38	31	26	37	30	25		36	30	25		36	30	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1958	1958	1958
5°	1957	1949	1959
10°	1946	1944	1957
15°	1932	1934	1951
20°	1908	1921	1942
25°	1884	1904	1938
30°	1851	1887	1924
35°	1813	1868	1915
40°	1777	1846	1904
45°	1732	1827	1902
50°	1694	1807	1903
55°	1639	1791	1912
60°	1579	1778	1925
65°	1517	1762	1940
70°	1416	1749	1975
75°	1289	1753	2036
80°	1066	1734	1875
85°	817	1377	1331



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.6	3.2
10°-20°	392.8	9.3
20°-30°	592.5	14.0
30°-40°	711.3	16.8
40°-50°	739.8	17.5
50°-60°	680.4	16.1
60°-70°	542.3	12.8
70°-80°	343.6	8.1
80°-90°	94.5	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°	1122.8	26.5
0°-40°	1834.2	43.3
0°-60°	3254.4	76.8
0°-90°	4234.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4234.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1455	1455	1455	1455	1455	
5°	1449	1449	1443	1450	1450	138
15°	1387	1387	1388	1399	1400	391
25°	1269	1275	1282	1301	1305	584
35°	1104	1116	1137	1158	1166	691
45°	910	930	960	991	1000	703
55°	699	721	764	802	815	624
65°	476	501	554	596	610	470
75°	248	280	337	380	392	261
85°	53	76	89	88	86	63
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1454.9	1454.9	1454.9	1454.9	1454.9
2.5°	1454.9	1454.9	1447.3	1454.9	1454.9
5°	1448.8	1448.8	1442.8	1450.3	1450.3
7.5°	1438.2	1439.7	1435.2	1442.8	1442.8
10°	1424.6	1426.1	1423.1	1432.2	1432.2
12.5°	1406.5	1408.0	1406.5	1417.1	1417.1
15°	1386.8	1386.8	1388.3	1398.9	1400.4
17.5°	1361.1	1364.1	1367.1	1379.2	1379.2
20°	1332.4	1336.9	1341.4	1356.6	1356.6
22.5°	1303.6	1308.2	1314.2	1329.3	1332.4
25°	1268.8	1274.9	1282.5	1300.6	1305.1
27.5°	1232.5	1237.1	1249.2	1268.8	1270.4
30°	1191.7	1199.3	1214.4	1234.1	1238.6
32.5°	1149.4	1160.0	1176.6	1199.3	1203.8
35°	1104.0	1116.1	1137.3	1158.4	1166.0
37.5°	1061.7	1070.7	1094.9	1119.1	1123.7
40°	1011.7	1025.4	1051.1	1078.3	1084.3
42.5°	961.8	977.0	1005.7	1032.9	1043.5
45°	910.4	930.1	960.3	990.6	999.6
47.5°	859.0	880.2	911.9	945.2	955.8
50°	809.1	828.8	863.5	898.3	908.9
52.5°	753.1	775.8	813.6	851.4	862.0
55°	698.7	721.4	763.7	801.5	815.1
57.5°	642.7	668.4	712.3	751.6	763.7
60°	586.8	614.0	660.9	700.2	715.3
62.5°	530.8	556.5	608.0	647.3	660.9
65°	476.4	500.6	553.5	595.9	609.5
67.5°	417.4	444.6	499.1	542.9	555.0
70°	359.9	387.2	444.6	490.0	502.1
72.5°	301.0	332.7	390.2	434.0	450.7
75°	248.0	279.8	337.2	379.6	391.7
77.5°	192.1	223.8	282.8	313.1	314.6
80°	137.6	173.9	223.8	235.9	242.0
82.5°	90.7	125.5	154.3	169.4	169.4
85°	52.9	75.6	89.2	87.7	86.2
87.5°	19.7	25.7	21.2	15.1	10.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)