

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: P302254

Luminaire Tested: **RX-WO-40H840-UNV-24-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P302254
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-40H840-UNV-24-STD
Description: CORELITE CLASS RX 2X2 LED LUMINAIRE.
ROUND LENS, HIGH PERFORMANCE LUMEN PACKAGE.
Light Source: (252)4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

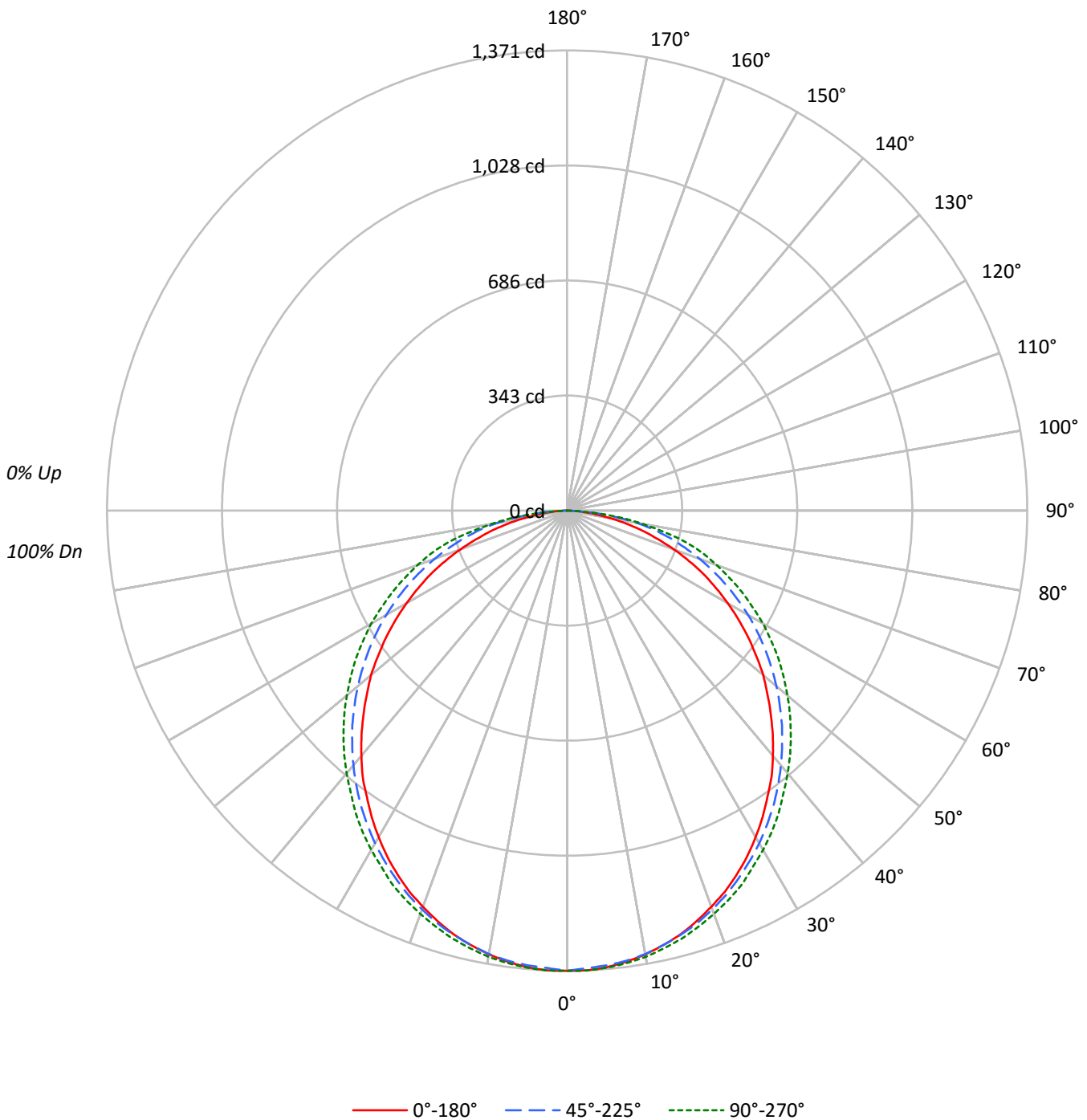
Lumens per Lamp: N/A
Luminaire Lumens: 3991.6 lumens
Efficiency: N/A
Efficacy: 136.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 29.2
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	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°	1845	1845	1845
5°	1844	1837	1846
10°	1835	1833	1844
15°	1821	1823	1839
20°	1798	1810	1831
25°	1776	1795	1826
30°	1745	1778	1814
35°	1709	1761	1805
40°	1675	1740	1795
45°	1633	1722	1793
50°	1596	1704	1793
55°	1545	1689	1802
60°	1488	1676	1815
65°	1429	1661	1829
70°	1335	1649	1862
75°	1215	1653	1919
80°	1005	1635	1767
85°	770	1298	1255



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.7	3.2
10°-20°	370.2	9.3
20°-30°	558.5	14.0
30°-40°	670.5	16.8
40°-50°	697.3	17.5
50°-60°	641.3	16.1
60°-70°	511.1	12.8
70°-80°	323.9	8.1
80°-90°	89.1	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°	1058.4	26.5
0°-40°	1728.9	43.3
0°-60°	3067.5	76.8
0°-90°	3991.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3991.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1371	1371	1371	1371	1371	
5°	1366	1366	1360	1367	1367	130
15°	1307	1307	1309	1319	1320	368
25°	1196	1202	1209	1226	1230	551
35°	1041	1052	1072	1092	1099	652
45°	858	877	905	934	942	663
55°	659	680	720	756	768	589
65°	449	472	522	562	574	443
75°	234	264	318	358	369	246
85°	50	71	84	83	81	59
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1371.3	1371.3	1371.3	1371.3	1371.3
2.5°	1371.3	1371.3	1364.2	1371.3	1371.3
5°	1365.6	1365.6	1359.9	1367.0	1367.0
7.5°	1355.6	1357.1	1352.8	1359.9	1359.9
10°	1342.8	1344.2	1341.4	1349.9	1349.9
12.5°	1325.7	1327.1	1325.7	1335.7	1335.7
15°	1307.2	1307.2	1308.6	1318.6	1320.0
17.5°	1282.9	1285.8	1288.6	1300.0	1300.0
20°	1255.8	1260.1	1264.4	1278.7	1278.7
22.5°	1228.8	1233.0	1238.7	1253.0	1255.8
25°	1196.0	1201.7	1208.8	1225.9	1230.2
27.5°	1161.8	1166.0	1177.4	1196.0	1197.4
30°	1123.3	1130.4	1144.7	1163.2	1167.5
32.5°	1083.4	1093.3	1109.0	1130.4	1134.7
35°	1040.6	1052.0	1072.0	1091.9	1099.0
37.5°	1000.7	1009.2	1032.0	1054.9	1059.1
40°	953.6	966.5	990.7	1016.4	1022.1
42.5°	906.6	920.9	947.9	973.6	983.6
45°	858.1	876.7	905.2	933.7	942.2
47.5°	809.7	829.6	859.6	890.9	900.9
50°	762.6	781.2	813.9	846.7	856.7
52.5°	709.9	731.3	766.9	802.5	812.5
55°	658.6	680.0	719.9	755.5	768.3
57.5°	605.8	630.1	671.4	708.5	719.9
60°	553.1	578.7	622.9	660.0	674.3
62.5°	500.3	524.6	573.0	610.1	622.9
65°	449.0	471.8	521.7	561.6	574.5
67.5°	393.4	419.1	470.4	511.7	523.2
70°	339.3	364.9	419.1	461.9	473.3
72.5°	283.7	313.6	367.8	409.1	424.8
75°	233.8	263.7	317.9	357.8	369.2
77.5°	181.0	211.0	266.6	295.1	296.5
80°	129.7	163.9	211.0	222.4	228.1
82.5°	85.5	118.3	145.4	159.7	159.7
85°	49.9	71.3	84.1	82.7	81.3
87.5°	18.5	24.2	20.0	14.3	10.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)