

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: P302287

Luminaire Tested: **RX-WO-55H940-UNV-24-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P302287
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-55H940-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

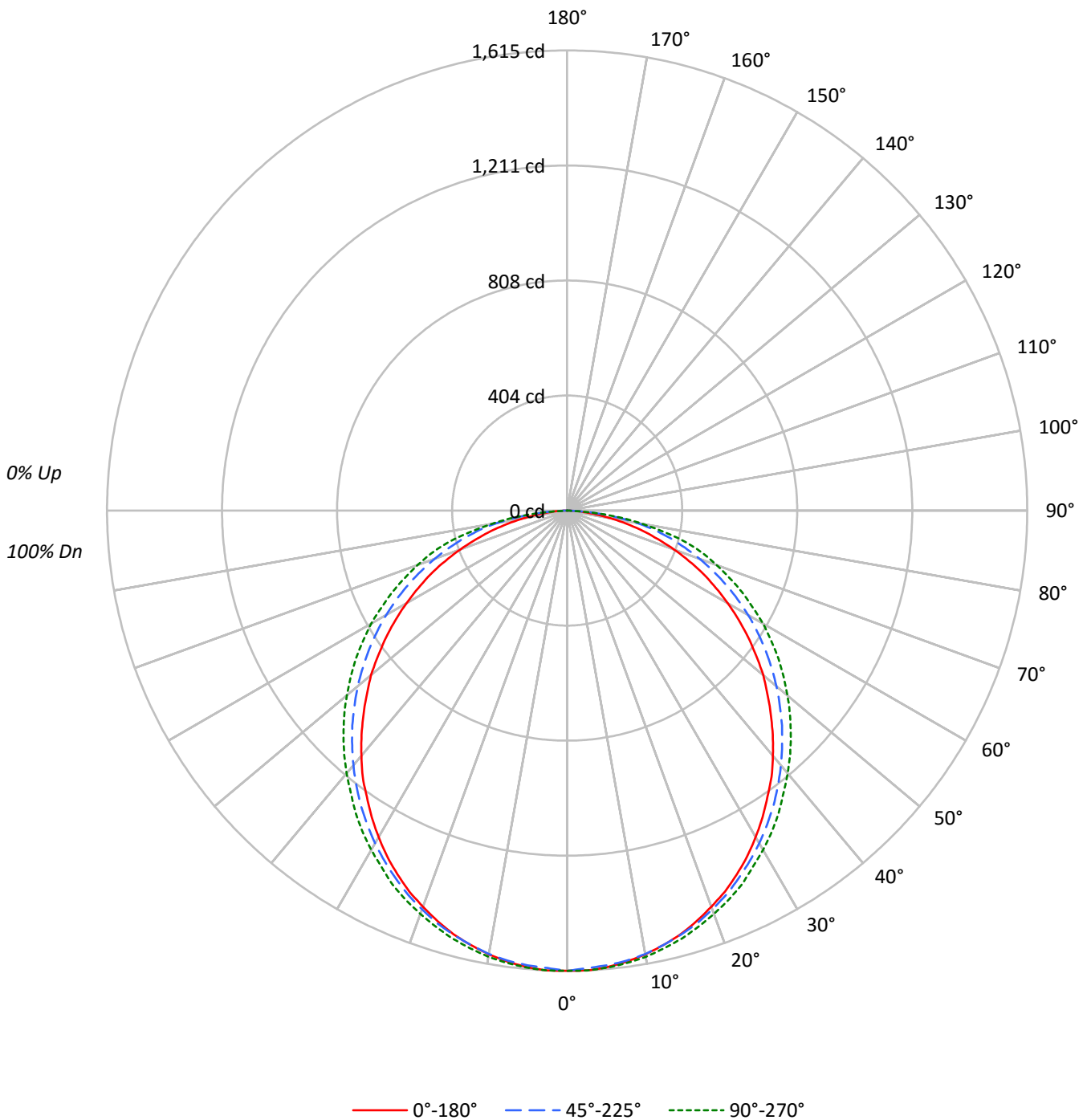
Lumens per Lamp: N/A
Luminaire Lumens: 4702.0 lumens
Efficiency: N/A
Efficacy: 115.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 40.9
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	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°	2174	2174	2174
5°	2173	2164	2175
10°	2161	2159	2173
15°	2145	2147	2166
20°	2118	2133	2157
25°	2091	2114	2151
30°	2056	2095	2137
35°	2013	2074	2127
40°	1973	2050	2115
45°	1924	2029	2112
50°	1881	2007	2112
55°	1820	1989	2123
60°	1753	1975	2137
65°	1684	1957	2154
70°	1572	1942	2193
75°	1432	1947	2261
80°	1184	1925	2082
85°	908	1530	1477



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.7	3.2
10°-20°	436.1	9.3
20°-30°	657.9	14.0
30°-40°	789.8	16.8
40°-50°	821.4	17.5
50°-60°	755.5	16.1
60°-70°	602.1	12.8
70°-80°	381.5	8.1
80°-90°	104.9	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°	1246.7	26.5
0°-40°	2036.6	43.3
0°-60°	3613.5	76.8
0°-90°	4702.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4702.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1615	1615	1615	1615	1615	
5°	1609	1609	1602	1610	1610	153
15°	1540	1540	1542	1553	1555	434
25°	1409	1416	1424	1444	1449	649
35°	1226	1239	1263	1286	1295	768
45°	1011	1033	1066	1100	1110	780
55°	776	801	848	890	905	693
65°	529	556	615	662	677	521
75°	275	311	374	422	435	290
85°	59	84	99	97	96	70
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1615.4	1615.4	1615.4	1615.4	1615.4
2.5°	1615.4	1615.4	1607.0	1615.4	1615.4
5°	1608.7	1608.7	1601.9	1610.3	1610.3
7.5°	1596.9	1598.6	1593.5	1601.9	1601.9
10°	1581.8	1583.5	1580.1	1590.2	1590.2
12.5°	1561.6	1563.3	1561.6	1573.4	1573.4
15°	1539.8	1539.8	1541.5	1553.2	1554.9
17.5°	1511.3	1514.6	1518.0	1531.4	1531.4
20°	1479.4	1484.4	1489.4	1506.2	1506.2
22.5°	1447.5	1452.5	1459.2	1476.0	1479.4
25°	1408.8	1415.6	1424.0	1444.1	1449.1
27.5°	1368.5	1373.6	1387.0	1408.8	1410.5
30°	1323.2	1331.6	1348.4	1370.2	1375.3
32.5°	1276.2	1287.9	1306.4	1331.6	1336.6
35°	1225.8	1239.2	1262.7	1286.3	1294.7
37.5°	1178.8	1188.9	1215.7	1242.6	1247.6
40°	1123.4	1138.5	1167.0	1197.3	1204.0
42.5°	1068.0	1084.8	1116.7	1146.9	1158.6
45°	1010.9	1032.7	1066.3	1099.9	1109.9
47.5°	953.8	977.3	1012.6	1049.5	1061.2
50°	898.4	920.2	958.8	997.4	1009.2
52.5°	836.2	861.4	903.4	945.4	957.1
55°	775.8	801.0	848.0	890.0	905.1
57.5°	713.7	742.2	790.9	834.6	848.0
60°	651.5	681.8	733.8	777.5	794.3
62.5°	589.4	617.9	675.0	718.7	733.8
65°	528.9	555.8	614.6	661.6	676.7
67.5°	463.5	493.7	554.1	602.8	616.3
70°	399.6	429.9	493.7	544.1	557.5
72.5°	334.2	369.4	433.2	481.9	500.4
75°	275.4	310.6	374.5	421.5	434.9
77.5°	213.3	248.5	314.0	347.6	349.3
80°	152.8	193.1	248.5	262.0	268.7
82.5°	100.8	139.4	171.3	188.1	188.1
85°	58.8	84.0	99.1	97.4	95.7
87.5°	21.8	28.5	23.5	16.8	11.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)