

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: P302285

Luminaire Tested: **RX-WO-45H940-UNV-24-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P302285
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-45H940-UNV-24-STD
Description: CORELITE CLASS RX 2X2 LED LUMINAIRE.
ROUND LENS, HIGH PERFORMANCE LUMEN PACKAGE.
Light Source: (252)4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

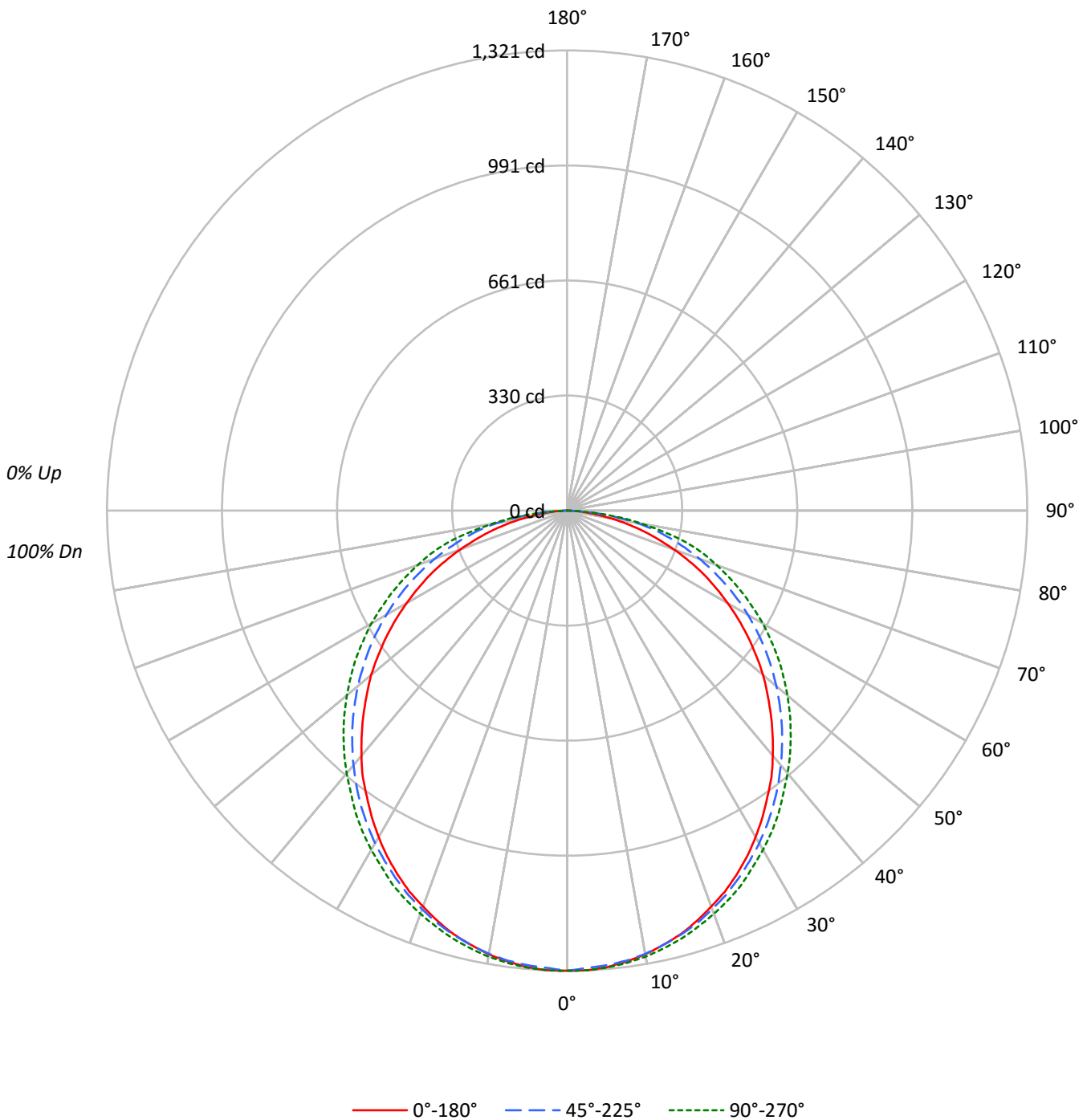
Lumens per Lamp: N/A
Luminaire Lumens: 3844.9 lumens
Efficiency: N/A
Efficacy: 114.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 33.5
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°	1777	1777	1777
5°	1777	1769	1779
10°	1767	1765	1777
15°	1754	1756	1771
20°	1732	1744	1764
25°	1710	1729	1759
30°	1681	1713	1747
35°	1646	1696	1739
40°	1613	1676	1729
45°	1573	1659	1727
50°	1538	1641	1727
55°	1488	1627	1736
60°	1434	1615	1748
65°	1377	1600	1762
70°	1286	1588	1793
75°	1171	1592	1849
80°	969	1574	1702
85°	743	1250	1209



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.9	3.2
10°-20°	356.6	9.3
20°-30°	538.0	14.0
30°-40°	645.9	16.8
40°-50°	671.7	17.5
50°-60°	617.7	16.1
60°-70°	492.3	12.8
70°-80°	312.0	8.1
80°-90°	85.8	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°	1019.5	26.5
0°-40°	1665.3	43.3
0°-60°	2954.8	76.8
0°-90°	3844.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3844.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1321	1321	1321	1321	1321	
5°	1315	1315	1310	1317	1317	125
15°	1259	1259	1260	1270	1272	355
25°	1152	1158	1164	1181	1185	531
35°	1002	1013	1033	1052	1059	628
45°	827	844	872	899	908	638
55°	634	655	693	728	740	567
65°	432	454	503	541	553	426
75°	225	254	306	345	356	237
85°	48	69	81	80	78	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1320.9	1320.9	1320.9	1320.9	1320.9
2.5°	1320.9	1320.9	1314.1	1320.9	1320.9
5°	1315.4	1315.4	1309.9	1316.8	1316.8
7.5°	1305.8	1307.2	1303.1	1309.9	1309.9
10°	1293.5	1294.8	1292.1	1300.3	1300.3
12.5°	1277.0	1278.4	1277.0	1286.6	1286.6
15°	1259.1	1259.1	1260.5	1270.1	1271.5
17.5°	1235.8	1238.5	1241.3	1252.3	1252.3
20°	1209.7	1213.8	1217.9	1231.7	1231.7
22.5°	1183.6	1187.7	1193.2	1207.0	1209.7
25°	1152.0	1157.5	1164.4	1180.9	1185.0
27.5°	1119.1	1123.2	1134.2	1152.0	1153.4
30°	1082.0	1088.9	1102.6	1120.4	1124.6
32.5°	1043.6	1053.2	1068.3	1088.9	1093.0
35°	1002.4	1013.3	1032.6	1051.8	1058.7
37.5°	963.9	972.2	994.1	1016.1	1020.2
40°	918.6	931.0	954.3	979.0	984.5
42.5°	873.3	887.0	913.1	937.8	947.4
45°	826.6	844.5	871.9	899.4	907.6
47.5°	779.9	799.1	828.0	858.2	867.8
50°	734.6	752.5	784.0	815.6	825.2
52.5°	683.8	704.4	738.7	773.1	782.7
55°	634.4	655.0	693.4	727.7	740.1
57.5°	583.6	606.9	646.7	682.4	693.4
60°	532.8	557.5	600.0	635.7	649.5
62.5°	482.0	505.3	552.0	587.7	600.0
65°	432.5	454.5	502.6	541.0	553.4
67.5°	379.0	403.7	453.1	492.9	503.9
70°	326.8	351.5	403.7	444.9	455.9
72.5°	273.2	302.1	354.3	394.1	409.2
75°	225.2	254.0	306.2	344.6	355.6
77.5°	174.4	203.2	256.8	284.2	285.6
80°	125.0	157.9	203.2	214.2	219.7
82.5°	82.4	114.0	140.1	153.8	153.8
85°	48.1	68.7	81.0	79.6	78.3
87.5°	17.9	23.3	19.2	13.7	9.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)