

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: P302317

Luminaire Tested: **ZX-WO-55H840-UNV-24-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P302317
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-55H840-UNV-24-STD
Description: CORELITE CLASS RX 2X2 LED LUMINAIRE.
FLAT LENS, HIGH PERFORMANCE LUMEN PACKAGE.
Light Source: (336)4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

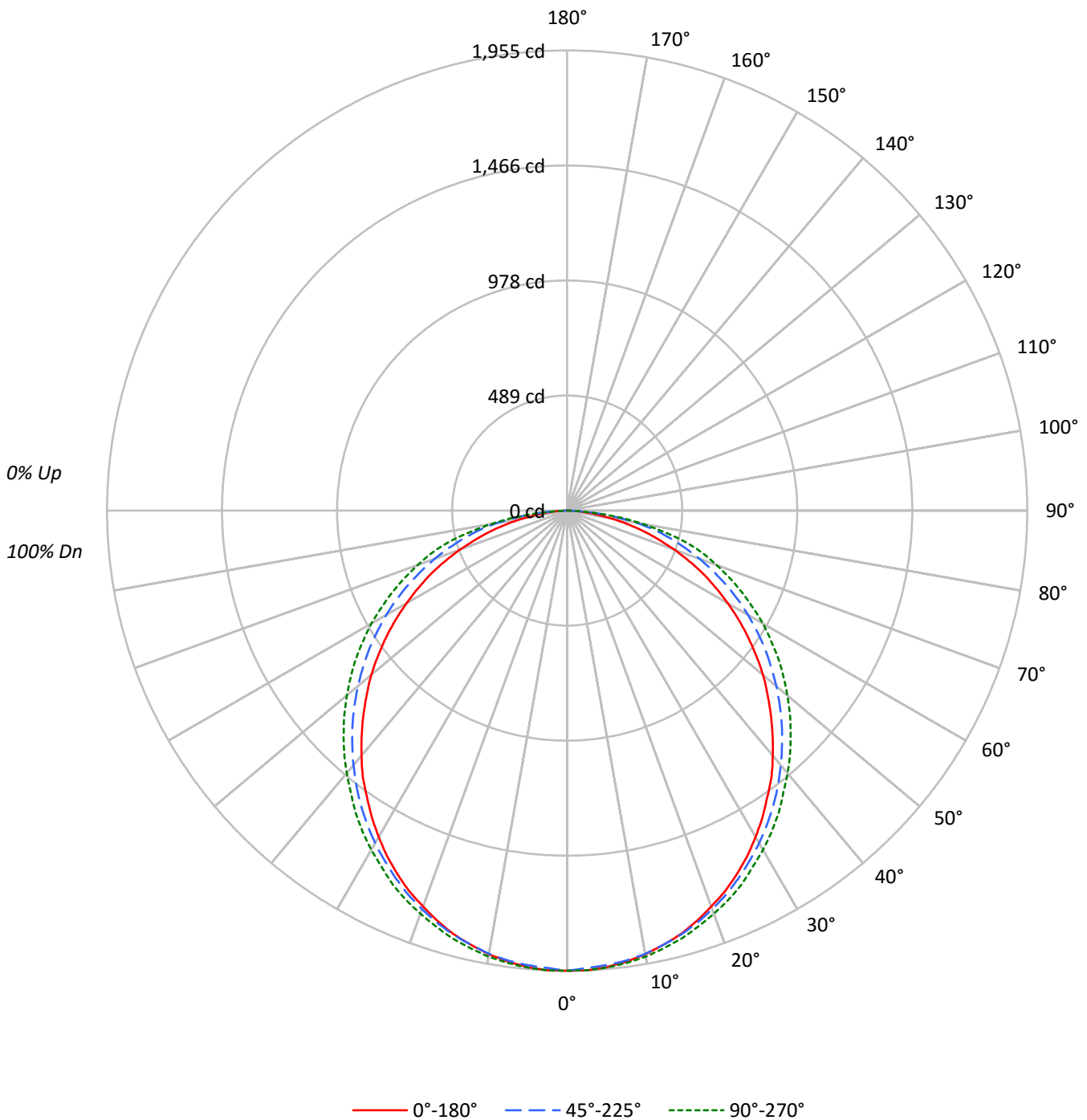
Lumens per Lamp: N/A
Luminaire Lumens: 5689.6 lumens
Efficiency: N/A
Efficacy: 139.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	2630	2630	2630
5°	2629	2618	2632
10°	2615	2612	2629
15°	2595	2598	2621
20°	2563	2581	2610
25°	2531	2558	2603
30°	2488	2535	2585
35°	2436	2510	2573
40°	2387	2480	2559
45°	2328	2455	2556
50°	2276	2429	2556
55°	2202	2407	2569
60°	2122	2389	2586
65°	2038	2368	2607
70°	1902	2350	2654
75°	1732	2355	2736
80°	1433	2330	2519
85°	1098	1851	1788



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.8	3.2
10°-20°	527.7	9.3
20°-30°	796.1	14.0
30°-40°	955.7	16.8
40°-50°	994.0	17.5
50°-60°	914.1	16.1
60°-70°	728.6	12.8
70°-80°	461.7	8.1
80°-90°	127.0	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°	1508.6	26.5
0°-40°	2464.3	43.3
0°-60°	4372.4	76.8
0°-90°	5689.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5689.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1955	1955	1955	1955	1955	
5°	1947	1947	1938	1949	1949	185
15°	1863	1863	1865	1880	1882	525
25°	1705	1713	1723	1747	1754	785
35°	1483	1500	1528	1556	1567	929
45°	1223	1250	1290	1331	1343	944
55°	939	969	1026	1077	1095	839
65°	640	673	744	801	819	631
75°	333	376	453	510	526	351
85°	71	102	120	118	116	85
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1954.7	1954.7	1954.7	1954.7	1954.7
2.5°	1954.7	1954.7	1944.5	1954.7	1954.7
5°	1946.6	1946.6	1938.4	1948.6	1948.6
7.5°	1932.3	1934.4	1928.3	1938.4	1938.4
10°	1914.0	1916.1	1912.0	1924.2	1924.2
12.5°	1889.7	1891.7	1889.7	1903.9	1903.9
15°	1863.3	1863.3	1865.3	1879.5	1881.5
17.5°	1828.7	1832.8	1836.8	1853.1	1853.1
20°	1790.1	1796.2	1802.3	1822.6	1822.6
22.5°	1751.5	1757.6	1765.7	1786.0	1790.1
25°	1704.8	1712.9	1723.0	1747.4	1753.5
27.5°	1656.0	1662.1	1678.3	1704.8	1706.8
30°	1601.1	1611.3	1631.6	1658.0	1664.1
32.5°	1544.2	1558.5	1580.8	1611.3	1617.4
35°	1483.3	1499.5	1528.0	1556.4	1566.6
37.5°	1426.4	1438.6	1471.1	1503.6	1509.7
40°	1359.3	1377.6	1412.2	1448.7	1456.9
42.5°	1292.3	1312.6	1351.2	1387.8	1402.0
45°	1223.2	1249.6	1290.3	1330.9	1343.1
47.5°	1154.1	1182.6	1225.2	1269.9	1284.2
50°	1087.1	1113.5	1160.2	1206.9	1221.2
52.5°	1011.9	1042.4	1093.2	1144.0	1158.2
55°	938.7	969.2	1026.1	1076.9	1095.2
57.5°	863.6	898.1	957.0	1009.9	1026.1
60°	788.4	825.0	887.9	940.8	961.1
62.5°	713.2	747.7	816.8	869.7	887.9
65°	640.0	672.6	743.7	800.6	818.9
67.5°	560.8	597.4	670.5	729.5	745.7
70°	483.6	520.2	597.4	658.3	674.6
72.5°	404.3	447.0	524.2	583.2	605.5
75°	333.2	375.9	453.1	510.0	526.3
77.5°	258.1	300.7	380.0	420.6	422.6
80°	184.9	233.7	300.7	317.0	325.1
82.5°	121.9	168.6	207.3	227.6	227.6
85°	71.1	101.6	119.9	117.9	115.8
87.5°	26.4	34.5	28.4	20.3	14.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)