

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: P302306

Luminaire Tested: **ZX-WO-50H835-UNV-24-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P302306
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-50H835-UNV-24-STD
Description: CORELITE CLASS RX 2X2 LED LUMINAIRE.
FLAT LENS, HIGH PERFORMANCE LUMEN PACKAGE.
Light Source: (336)3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

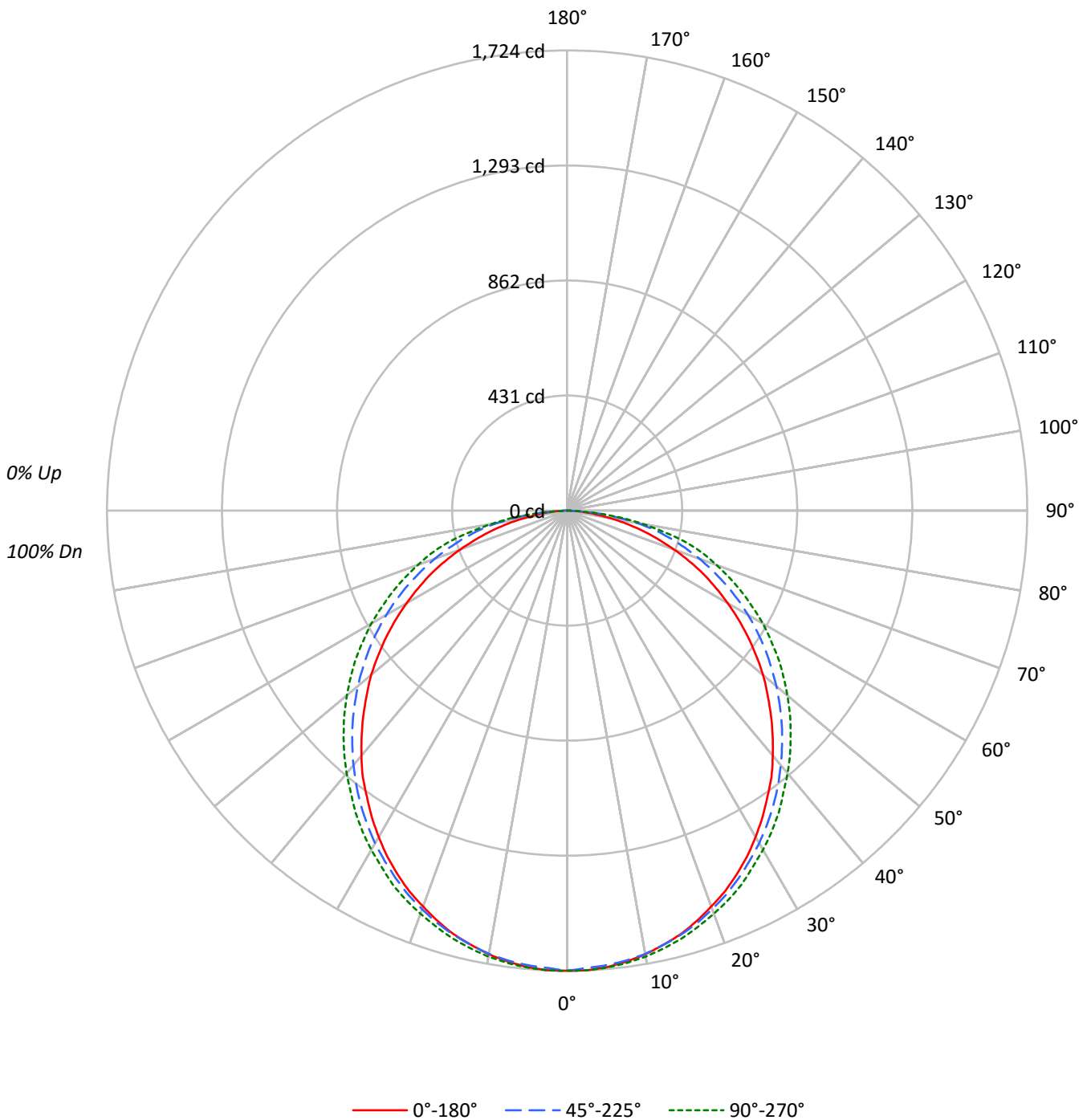
Lumens per Lamp: N/A
Luminaire Lumens: 5017.6 lumens
Efficiency: N/A
Efficacy: 138.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	2319	2319	2319
5°	2318	2309	2321
10°	2306	2304	2318
15°	2289	2291	2311
20°	2260	2276	2301
25°	2232	2256	2296
30°	2194	2236	2280
35°	2149	2213	2269
40°	2106	2187	2257
45°	2053	2165	2254
50°	2007	2142	2254
55°	1942	2123	2266
60°	1871	2107	2281
65°	1797	2088	2299
70°	1678	2072	2340
75°	1528	2077	2413
80°	1264	2055	2221
85°	968	1632	1576



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.0	3.2
10°-20°	465.4	9.3
20°-30°	702.0	14.0
30°-40°	842.8	16.8
40°-50°	876.6	17.5
50°-60°	806.2	16.1
60°-70°	642.5	12.8
70°-80°	407.1	8.1
80°-90°	112.0	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°	1330.4	26.5
0°-40°	2173.3	43.3
0°-60°	3856.0	76.8
0°-90°	5017.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5017.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1724	1724	1724	1724	1724	
5°	1717	1717	1710	1718	1718	163
15°	1643	1643	1645	1658	1659	463
25°	1503	1511	1520	1541	1546	692
35°	1308	1322	1348	1373	1382	819
45°	1079	1102	1138	1174	1184	833
55°	828	855	905	950	966	740
65°	564	593	656	706	722	556
75°	294	332	400	450	464	309
85°	63	90	106	104	102	75
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1723.8	1723.8	1723.8	1723.8	1723.8
2.5°	1723.8	1723.8	1714.8	1723.8	1723.8
5°	1716.6	1716.6	1709.5	1718.4	1718.4
7.5°	1704.1	1705.9	1700.5	1709.5	1709.5
10°	1688.0	1689.7	1686.2	1696.9	1696.9
12.5°	1666.5	1668.2	1666.5	1679.0	1679.0
15°	1643.2	1643.2	1645.0	1657.5	1659.3
17.5°	1612.7	1616.3	1619.9	1634.2	1634.2
20°	1578.7	1584.0	1589.4	1607.3	1607.3
22.5°	1544.6	1550.0	1557.1	1575.1	1578.7
25°	1503.4	1510.6	1519.5	1541.0	1546.4
27.5°	1460.4	1465.8	1480.1	1503.4	1505.2
30°	1412.0	1421.0	1438.9	1462.2	1467.6
32.5°	1361.8	1374.4	1394.1	1421.0	1426.3
35°	1308.1	1322.4	1347.5	1372.6	1381.5
37.5°	1257.9	1268.7	1297.3	1326.0	1331.4
40°	1198.8	1214.9	1245.4	1277.6	1284.8
42.5°	1139.6	1157.6	1191.6	1223.9	1236.4
45°	1078.7	1102.0	1137.8	1173.7	1184.4
47.5°	1017.8	1042.9	1080.5	1119.9	1132.5
50°	958.7	982.0	1023.2	1064.4	1076.9
52.5°	892.4	919.2	964.0	1008.8	1021.4
55°	827.9	854.7	904.9	949.7	965.8
57.5°	761.6	792.0	844.0	890.6	904.9
60°	695.3	727.5	783.1	829.6	847.6
62.5°	629.0	659.4	720.3	766.9	783.1
65°	564.4	593.1	655.8	706.0	722.1
67.5°	494.6	526.8	591.3	643.3	657.6
70°	426.5	458.7	526.8	580.6	594.9
72.5°	356.6	394.2	462.3	514.3	534.0
75°	293.9	331.5	399.6	449.8	464.1
77.5°	227.6	265.2	335.1	370.9	372.7
80°	163.1	206.1	265.2	279.5	286.7
82.5°	107.5	148.7	182.8	200.7	200.7
85°	62.7	89.6	105.7	103.9	102.1
87.5°	23.3	30.5	25.1	17.9	12.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)