

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: P302295

Luminaire Tested: **ZX-WO-45H830-UNV-24-STD**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P302295  
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-45H830-UNV-24-STD  
Description: CORELITE CLASS RX 2X2 LED LUMINAIRE.  
FLAT LENS, HIGH PERFORMANCE LUMEN PACKAGE.  
Light Source: (252)3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

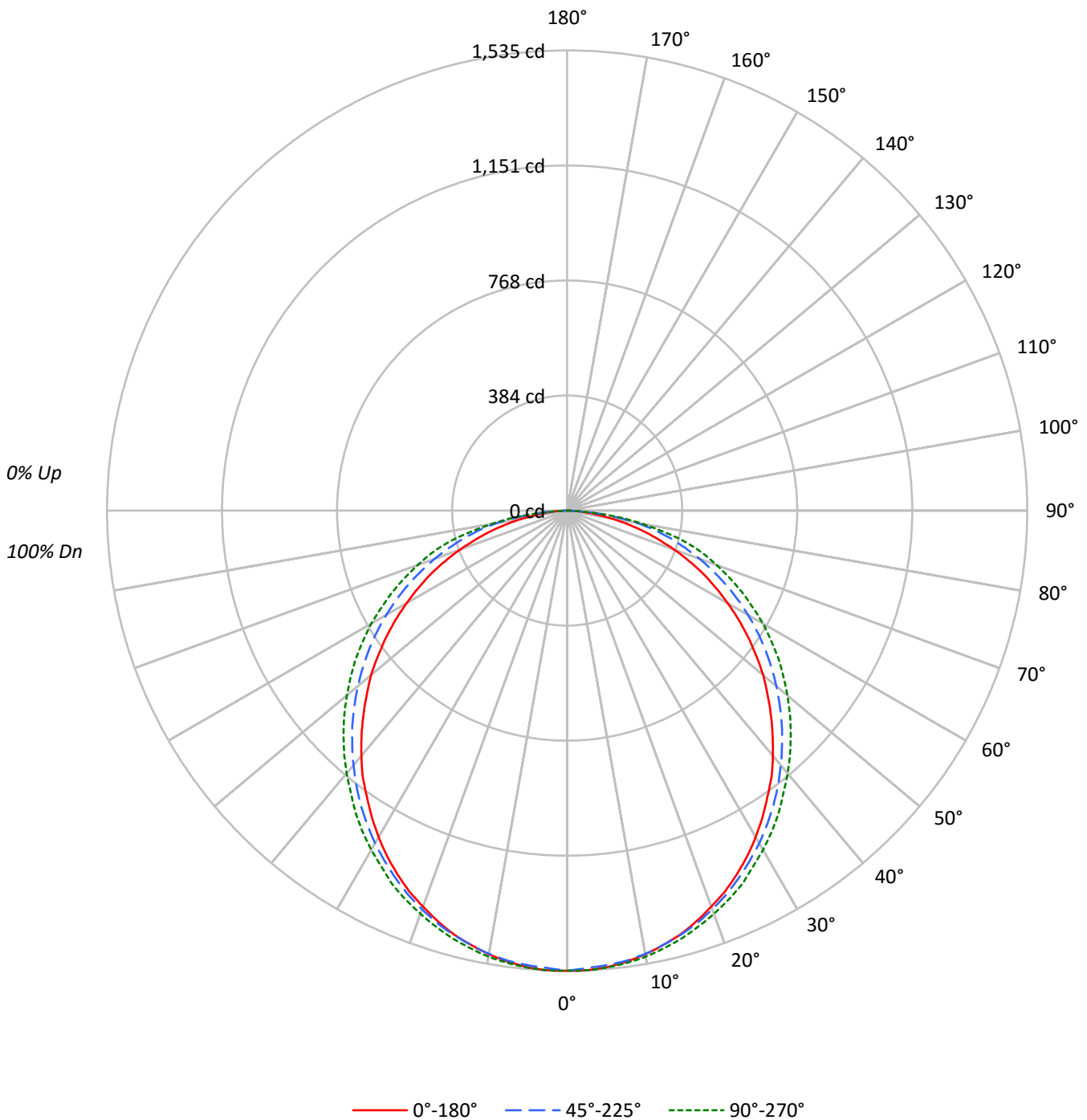
Lumens per Lamp: N/A  
Luminaire Lumens: 4468.3 lumens  
Efficiency: N/A  
Efficacy: 133.4 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 33.5  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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



TEST NUMBER: P302295  
CATALOG NUMBER: ZX-WO-45H830-UNV-24-STD

### Luminous Intensity Polar Plot





TEST NUMBER: P302295

CATALOG NUMBER: ZX-WO-45H830-UNV-24-STD

**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°	2065	2065	2065
5°	2065	2056	2067
10°	2054	2052	2065
15°	2038	2041	2058
20°	2013	2027	2050
25°	1988	2009	2044
30°	1954	1991	2030
35°	1913	1971	2021
40°	1875	1948	2010
45°	1828	1928	2007
50°	1787	1907	2007
55°	1729	1890	2018
60°	1666	1876	2031
65°	1600	1859	2047
70°	1494	1846	2084
75°	1360	1850	2149
80°	1125	1830	1978
85°	863	1453	1405



TEST NUMBER: P302295

CATALOG NUMBER: ZX-WO-45H830-UNV-24-STD

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	145.2	3.2
10°-20°	414.4	9.3
20°-30°	625.2	14.0
30°-40°	750.6	16.8
40°-50°	780.6	17.5
50°-60°	717.9	16.1
60°-70°	572.2	12.8
70°-80°	362.6	8.1
80°-90°	99.7	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°	1184.8	26.5
0°-40°	1935.4	43.3
0°-60°	3433.9	76.8
0°-90°	4468.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4468.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1535	1535	1535	1535	1535	
5°	1529	1529	1522	1530	1530	145
15°	1463	1463	1465	1476	1478	412
25°	1339	1345	1353	1372	1377	617
35°	1165	1178	1200	1222	1230	730
45°	961	981	1013	1045	1055	742
55°	737	761	806	846	860	659
65°	503	528	584	629	643	495
75°	262	295	356	400	413	275
85°	56	80	94	93	91	67
90°	0	0	0	0	0	



TEST NUMBER: P302295

CATALOG NUMBER: ZX-WO-45H830-UNV-24-STD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1535.1	1535.1	1535.1	1535.1	1535.1
2.5°	1535.1	1535.1	1527.1	1535.1	1535.1
5°	1528.7	1528.7	1522.3	1530.3	1530.3
7.5°	1517.6	1519.2	1514.4	1522.3	1522.3
10°	1503.2	1504.8	1501.6	1511.2	1511.2
12.5°	1484.0	1485.6	1484.0	1495.2	1495.2
15°	1463.3	1463.3	1464.9	1476.1	1477.7
17.5°	1436.2	1439.4	1442.6	1455.3	1455.3
20°	1405.9	1410.6	1415.4	1431.4	1431.4
22.5°	1375.5	1380.3	1386.7	1402.7	1405.9
25°	1338.8	1345.2	1353.2	1372.3	1377.1
27.5°	1300.5	1305.3	1318.1	1338.8	1340.4
30°	1257.5	1265.4	1281.4	1302.1	1306.9
32.5°	1212.8	1223.9	1241.5	1265.4	1270.2
35°	1164.9	1177.7	1200.0	1222.3	1230.3
37.5°	1120.2	1129.8	1155.3	1180.9	1185.6
40°	1067.6	1081.9	1109.0	1137.8	1144.2
42.5°	1014.9	1030.9	1061.2	1089.9	1101.1
45°	960.6	981.4	1013.3	1045.2	1054.8
47.5°	906.4	928.7	962.2	997.3	1008.5
50°	853.7	874.5	911.2	947.9	959.0
52.5°	794.7	818.6	858.5	898.4	909.6
55°	737.2	761.2	805.9	845.7	860.1
57.5°	678.2	705.3	751.6	793.1	805.9
60°	619.2	647.9	697.3	738.8	754.8
62.5°	560.1	587.2	641.5	683.0	697.3
65°	502.7	528.2	584.0	628.7	643.1
67.5°	440.4	469.2	526.6	572.9	585.6
70°	379.8	408.5	469.2	517.0	529.8
72.5°	317.6	351.1	411.7	458.0	475.5
75°	261.7	295.2	355.9	400.5	413.3
77.5°	202.7	236.2	298.4	330.3	331.9
80°	145.2	183.5	236.2	248.9	255.3
82.5°	95.7	132.4	162.8	178.7	178.7
85°	55.9	79.8	94.1	92.6	91.0
87.5°	20.7	27.1	22.3	16.0	11.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)