

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: P302299

Luminaire Tested: **ZX-WO-65H830-UNV-24-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P302299
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-65H830-UNV-24-STD
Description: CORELITE CLASS RX 2X2 LED LUMINAIRE.
FLAT LENS, HIGH PERFORMANCE LUMEN PACKAGE.
Light Source: (588)3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

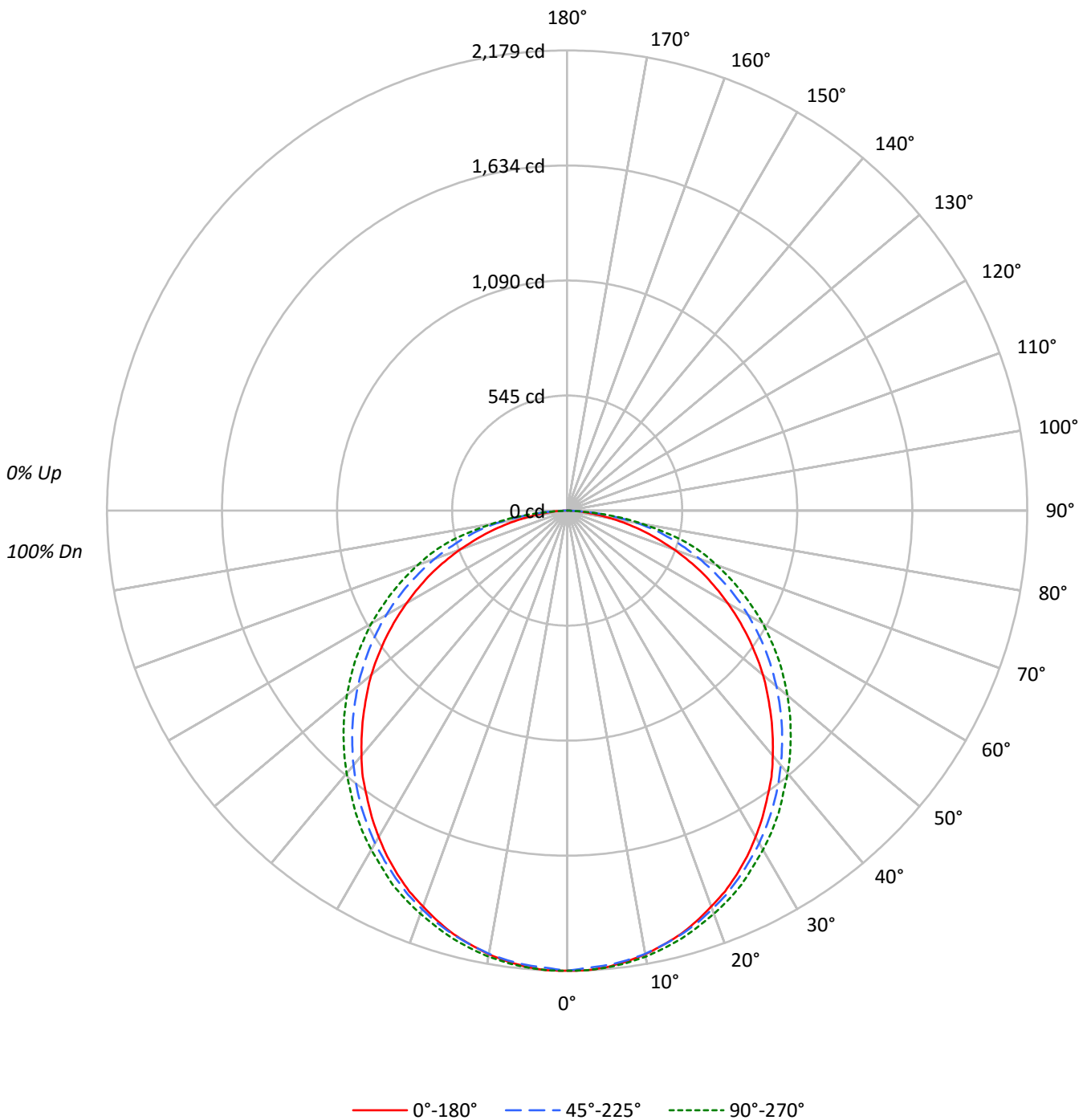
Lumens per Lamp: N/A
Luminaire Lumens: 6341.9 lumens
Efficiency: N/A
Efficacy: 137.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 46.1
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°	2932	2932	2932
5°	2930	2918	2934
10°	2915	2912	2930
15°	2893	2896	2921
20°	2857	2876	2909
25°	2821	2851	2902
30°	2773	2826	2882
35°	2716	2798	2868
40°	2661	2765	2852
45°	2594	2737	2849
50°	2536	2707	2849
55°	2455	2683	2864
60°	2365	2663	2883
65°	2271	2639	2906
70°	2120	2620	2958
75°	1931	2626	3049
80°	1597	2597	2808
85°	1224	2062	1993



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	206.0	3.2
10°-20°	588.2	9.3
20°-30°	887.3	14.0
30°-40°	1065.3	16.8
40°-50°	1107.9	17.5
50°-60°	1018.9	16.1
60°-70°	812.1	12.8
70°-80°	514.6	8.1
80°-90°	141.5	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°	1681.6	26.5
0°-40°	2746.9	43.3
0°-60°	4873.7	76.8
0°-90°	6341.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6341.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2179	2179	2179	2179	2179	
5°	2170	2170	2161	2172	2172	206
15°	2077	2077	2079	2095	2097	585
25°	1900	1909	1921	1948	1955	875
35°	1653	1672	1703	1735	1746	1036
45°	1363	1393	1438	1484	1497	1053
55°	1046	1080	1144	1200	1221	935
65°	713	750	829	892	913	703
75°	371	419	505	568	587	391
85°	79	113	134	131	129	95
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2178.8	2178.8	2178.8	2178.8	2178.8
2.5°	2178.8	2178.8	2167.5	2178.8	2178.8
5°	2169.7	2169.7	2160.7	2172.0	2172.0
7.5°	2153.9	2156.1	2149.3	2160.7	2160.7
10°	2133.5	2135.7	2131.2	2144.8	2144.8
12.5°	2106.3	2108.6	2106.3	2122.2	2122.2
15°	2076.9	2076.9	2079.1	2095.0	2097.2
17.5°	2038.4	2042.9	2047.4	2065.5	2065.5
20°	1995.3	2002.1	2008.9	2031.6	2031.6
22.5°	1952.3	1959.1	1968.1	1990.8	1995.3
25°	1900.2	1909.3	1920.6	1947.8	1954.6
27.5°	1845.8	1852.6	1870.8	1900.2	1902.5
30°	1784.7	1796.0	1818.7	1848.1	1854.9
32.5°	1721.3	1737.1	1762.0	1796.0	1802.8
35°	1653.3	1671.5	1703.2	1734.9	1746.2
37.5°	1589.9	1603.5	1639.7	1676.0	1682.8
40°	1515.2	1535.6	1574.1	1614.8	1623.9
42.5°	1440.4	1463.1	1506.1	1546.9	1562.7
45°	1363.4	1392.9	1438.2	1483.5	1497.1
47.5°	1286.4	1318.1	1365.7	1415.5	1431.4
50°	1211.7	1241.1	1293.2	1345.3	1361.2
52.5°	1127.9	1161.9	1218.5	1275.1	1291.0
55°	1046.4	1080.3	1143.7	1200.4	1220.8
57.5°	962.6	1001.1	1066.7	1125.6	1143.7
60°	878.8	919.5	989.7	1048.6	1071.3
62.5°	795.0	833.5	910.5	969.4	989.7
65°	713.4	749.7	828.9	892.3	912.7
67.5°	625.1	665.9	747.4	813.1	831.2
70°	539.0	579.8	665.9	733.8	751.9
72.5°	450.7	498.3	584.3	650.0	674.9
75°	371.4	419.0	505.1	568.5	586.6
77.5°	287.6	335.2	423.5	468.8	471.1
80°	206.1	260.5	335.2	353.3	362.4
82.5°	135.9	188.0	231.0	253.7	253.7
85°	79.3	113.2	133.6	131.4	129.1
87.5°	29.4	38.5	31.7	22.6	15.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)