

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: P302240

Luminaire Tested: **RX-WO-70H830-UNV-24-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P302240
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-70H830-UNV-24-STD
Description: CORELITE CLASS RX 2X2 LED LUMINAIRE.
ROUND LENS, HIGH PERFORMANCE LUMEN PACKAGE.
Light Source: (588)3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

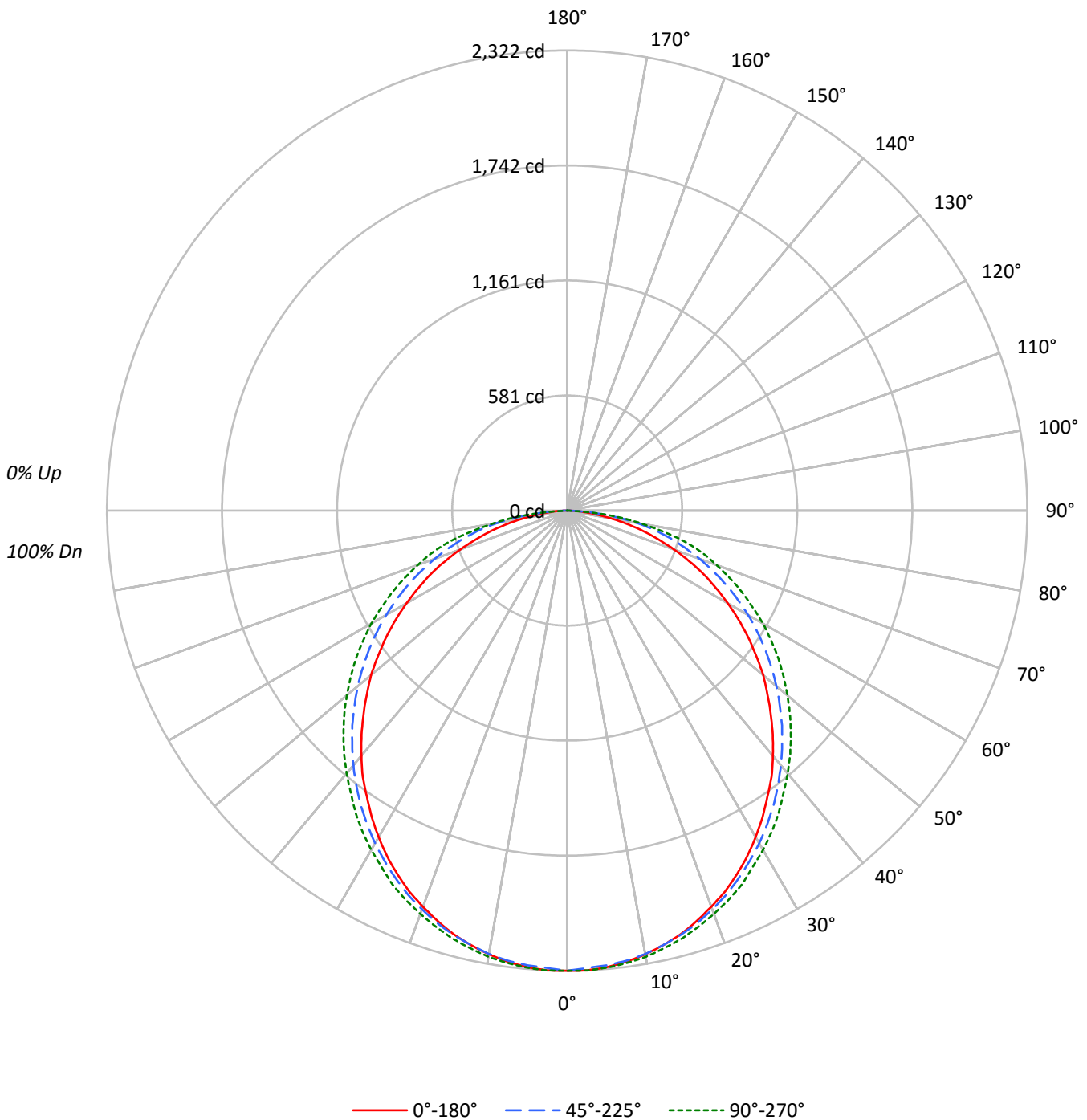
Lumens per Lamp: N/A
Luminaire Lumens: 6760.0 lumens
Efficiency: N/A
Efficacy: 135.5 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 49.9
Input Voltage (V): 120
Input Current (A_{in}): 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°	3125	3125	3125
5°	3124	3111	3127
10°	3107	3104	3124
15°	3084	3087	3114
20°	3045	3066	3101
25°	3007	3039	3093
30°	2955	3012	3072
35°	2895	2982	3057
40°	2837	2947	3040
45°	2765	2917	3037
50°	2704	2885	3037
55°	2616	2860	3052
60°	2521	2839	3073
65°	2421	2813	3097
70°	2260	2792	3153
75°	2058	2799	3251
80°	1702	2768	2993
85°	1304	2198	2124



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	219.6	3.2
10°-20°	627.0	9.3
20°-30°	945.8	14.0
30°-40°	1135.5	16.8
40°-50°	1180.9	17.5
50°-60°	1086.1	16.1
60°-70°	865.6	12.8
70°-80°	548.5	8.1
80°-90°	150.8	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°	1792.4	26.5
0°-40°	2927.9	43.3
0°-60°	5195.0	76.8
0°-90°	6760.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6760.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2322	2322	2322	2322	2322	
5°	2313	2313	2303	2315	2315	220
15°	2214	2214	2216	2233	2236	624
25°	2026	2035	2047	2076	2083	933
35°	1762	1782	1815	1849	1861	1104
45°	1453	1485	1533	1581	1596	1122
55°	1115	1152	1219	1280	1301	997
65°	760	799	884	951	973	750
75°	396	447	538	606	625	417
85°	84	121	142	140	138	101
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2322.4	2322.4	2322.4	2322.4	2322.4
2.5°	2322.4	2322.4	2310.3	2322.4	2322.4
5°	2312.8	2312.8	2303.1	2315.2	2315.2
7.5°	2295.9	2298.3	2291.0	2303.1	2303.1
10°	2274.1	2276.5	2271.7	2286.2	2286.2
12.5°	2245.2	2247.6	2245.2	2262.1	2262.1
15°	2213.8	2213.8	2216.2	2233.1	2235.5
17.5°	2172.7	2177.6	2182.4	2201.7	2201.7
20°	2126.9	2134.1	2141.3	2165.5	2165.5
22.5°	2081.0	2088.2	2097.9	2122.0	2126.9
25°	2025.5	2035.1	2047.2	2076.2	2083.4
27.5°	1967.5	1974.8	1994.1	2025.5	2027.9
30°	1902.3	1914.4	1938.6	1969.9	1977.2
32.5°	1834.8	1851.6	1878.2	1914.4	1921.7
35°	1762.3	1781.6	1815.4	1849.2	1861.3
37.5°	1694.7	1709.2	1747.8	1786.5	1793.7
40°	1615.1	1636.8	1677.8	1721.3	1730.9
42.5°	1535.4	1559.5	1605.4	1648.9	1665.8
45°	1453.3	1484.7	1533.0	1581.3	1595.8
47.5°	1371.2	1405.0	1455.7	1508.8	1525.7
50°	1291.6	1323.0	1378.5	1434.0	1450.9
52.5°	1202.2	1238.5	1298.8	1359.2	1376.1
55°	1115.3	1151.5	1219.1	1279.5	1301.2
57.5°	1026.0	1067.1	1137.1	1199.8	1219.1
60°	936.7	980.1	1055.0	1117.7	1141.9
62.5°	847.4	888.4	970.5	1033.3	1055.0
65°	760.5	799.1	883.6	951.2	972.9
67.5°	666.3	709.8	796.7	866.7	886.0
70°	574.6	618.0	709.8	782.2	801.5
72.5°	480.4	531.1	622.8	692.9	719.4
75°	395.9	446.6	538.4	606.0	625.3
77.5°	306.6	357.3	451.4	499.7	502.1
80°	219.7	277.6	357.3	376.6	386.3
82.5°	144.8	200.4	246.2	270.4	270.4
85°	84.5	120.7	142.4	140.0	137.6
87.5°	31.4	41.0	33.8	24.1	16.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)