

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: P302320

Luminaire Tested: **ZX-WO-70H840-UNV-24-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P302320
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-70H840-UNV-24-STD
Description: CORELITE CLASS RX 2X2 LED LUMINAIRE.
FLAT LENS, HIGH PERFORMANCE LUMEN PACKAGE.
Light Source: (588)4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

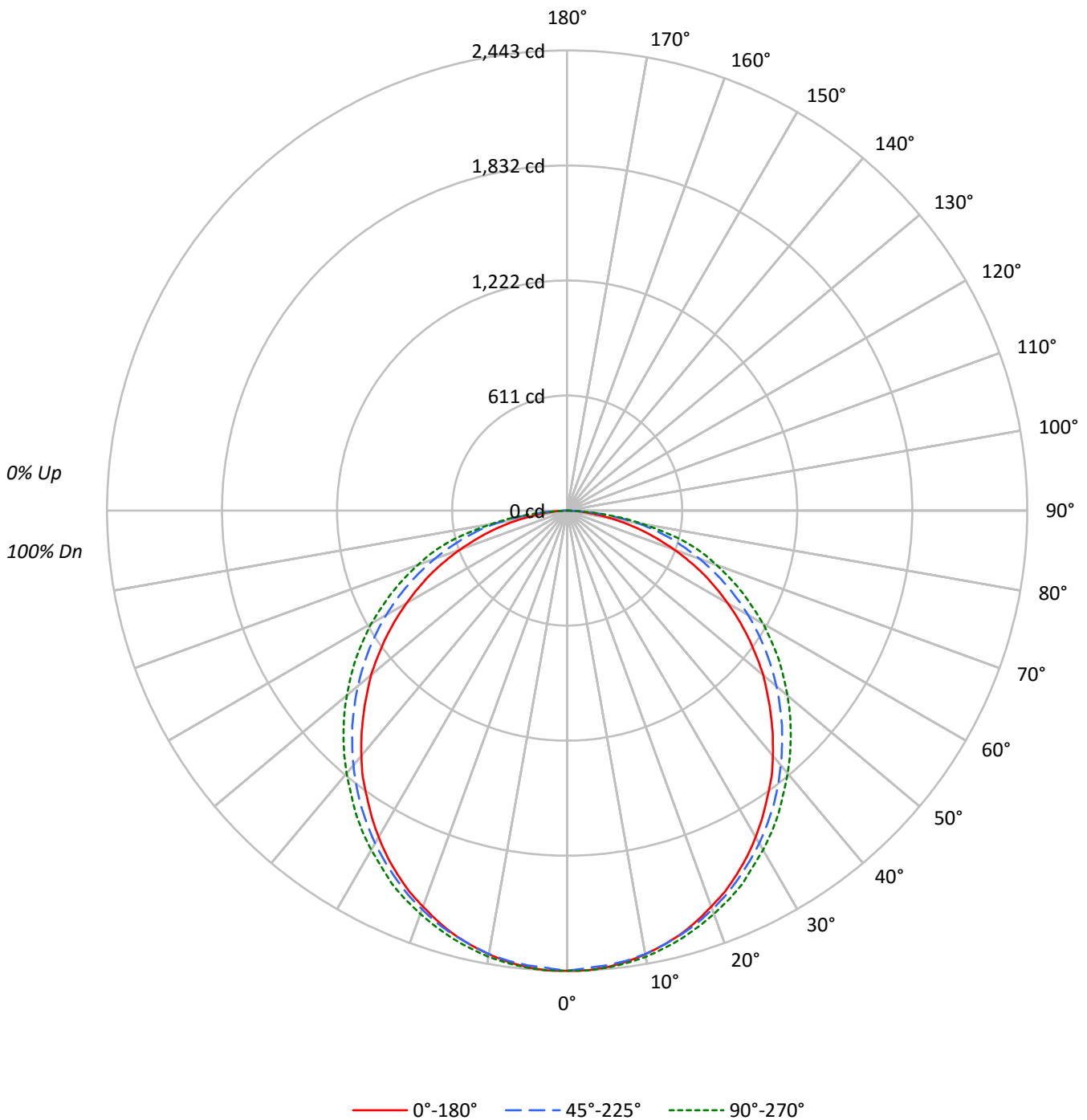
Lumens per Lamp: N/A
Luminaire Lumens: 7112.1 lumens
Efficiency: N/A
Efficacy: 142.5 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 49.9
Input Voltage (V): 120
Input Current (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	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					100			
1	108	103	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83					83			
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	68					68			
3	89	78	70	63	87	77	69	63	74	67	62	71	65	61	68	64	60	57					57			
4	82	69	60	54	79	68	60	53	65	58	52	63	57	52	61	55	51	49					49			
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42					42			
6	69	56	47	40	67	55	46	40	53	45	39	51	44	39	50	44	39	37					37			
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32					32			
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	42	35	31	29					29			
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26					26			
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	36	30	25	23					23			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3288	3288	3288
5°	3286	3273	3290
10°	3269	3265	3286
15°	3244	3248	3276
20°	3204	3226	3262
25°	3164	3197	3254
30°	3109	3169	3232
35°	3045	3137	3217
40°	2984	3100	3199
45°	2909	3069	3195
50°	2844	3036	3195
55°	2753	3009	3211
60°	2652	2987	3233
65°	2547	2960	3259
70°	2378	2937	3317
75°	2165	2944	3420
80°	1791	2913	3149
85°	1372	2314	2235



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	231.0	3.2
10°-20°	659.6	9.3
20°-30°	995.1	14.0
30°-40°	1194.7	16.8
40°-50°	1242.5	17.5
50°-60°	1142.7	16.1
60°-70°	910.7	12.8
70°-80°	577.1	8.1
80°-90°	158.7	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°	1885.8	26.5
0°-40°	3080.4	43.3
0°-60°	5465.6	76.8
0°-90°	7112.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7112.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2443	2443	2443	2443	2443	
5°	2433	2433	2423	2436	2436	231
15°	2329	2329	2332	2349	2352	656
25°	2131	2141	2154	2184	2192	982
35°	1854	1874	1910	1946	1958	1161
45°	1529	1562	1613	1664	1679	1181
55°	1173	1212	1283	1346	1369	1049
65°	800	841	930	1001	1024	789
75°	416	470	566	638	658	438
85°	89	127	150	147	145	106
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2443.4	2443.4	2443.4	2443.4	2443.4
2.5°	2443.4	2443.4	2430.7	2443.4	2443.4
5°	2433.2	2433.2	2423.1	2435.8	2435.8
7.5°	2415.4	2418.0	2410.4	2423.1	2423.1
10°	2392.6	2395.1	2390.0	2405.3	2405.3
12.5°	2362.1	2364.6	2362.1	2379.9	2379.9
15°	2329.1	2329.1	2331.6	2349.4	2351.9
17.5°	2285.9	2291.0	2296.1	2316.4	2316.4
20°	2237.6	2245.3	2252.9	2278.3	2278.3
22.5°	2189.4	2197.0	2207.2	2232.6	2237.6
25°	2131.0	2141.1	2153.8	2184.3	2191.9
27.5°	2070.0	2077.6	2098.0	2131.0	2133.5
30°	2001.4	2014.1	2039.5	2072.6	2080.2
32.5°	1930.3	1948.1	1976.0	2014.1	2021.8
35°	1854.1	1874.4	1910.0	1945.6	1958.3
37.5°	1783.0	1798.2	1838.9	1879.5	1887.1
40°	1699.2	1722.0	1765.2	1810.9	1821.1
42.5°	1615.4	1640.8	1689.0	1734.7	1752.5
45°	1529.0	1562.0	1612.8	1663.6	1678.9
47.5°	1442.7	1478.2	1531.6	1587.4	1605.2
50°	1358.8	1391.9	1450.3	1508.7	1526.5
52.5°	1264.9	1303.0	1366.5	1430.0	1447.7
55°	1173.4	1211.5	1282.6	1346.1	1369.0
57.5°	1079.5	1122.6	1196.3	1262.3	1282.6
60°	985.5	1031.2	1109.9	1176.0	1201.4
62.5°	891.5	934.7	1021.0	1087.1	1109.9
65°	800.1	840.7	929.6	1000.7	1023.6
67.5°	701.0	746.7	838.2	911.8	932.1
70°	604.5	650.2	746.7	822.9	843.2
72.5°	505.4	558.8	655.3	728.9	756.9
75°	416.5	469.9	566.4	637.5	657.8
77.5°	322.6	375.9	475.0	525.8	528.3
80°	231.1	292.1	375.9	396.2	406.4
82.5°	152.4	210.8	259.1	284.5	284.5
85°	88.9	127.0	149.9	147.3	144.8
87.5°	33.0	43.2	35.6	25.4	17.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)