

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: P302321

Luminaire Tested: **ZX-WO-75H840-UNV-24-STD**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P302321  
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-75H840-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**

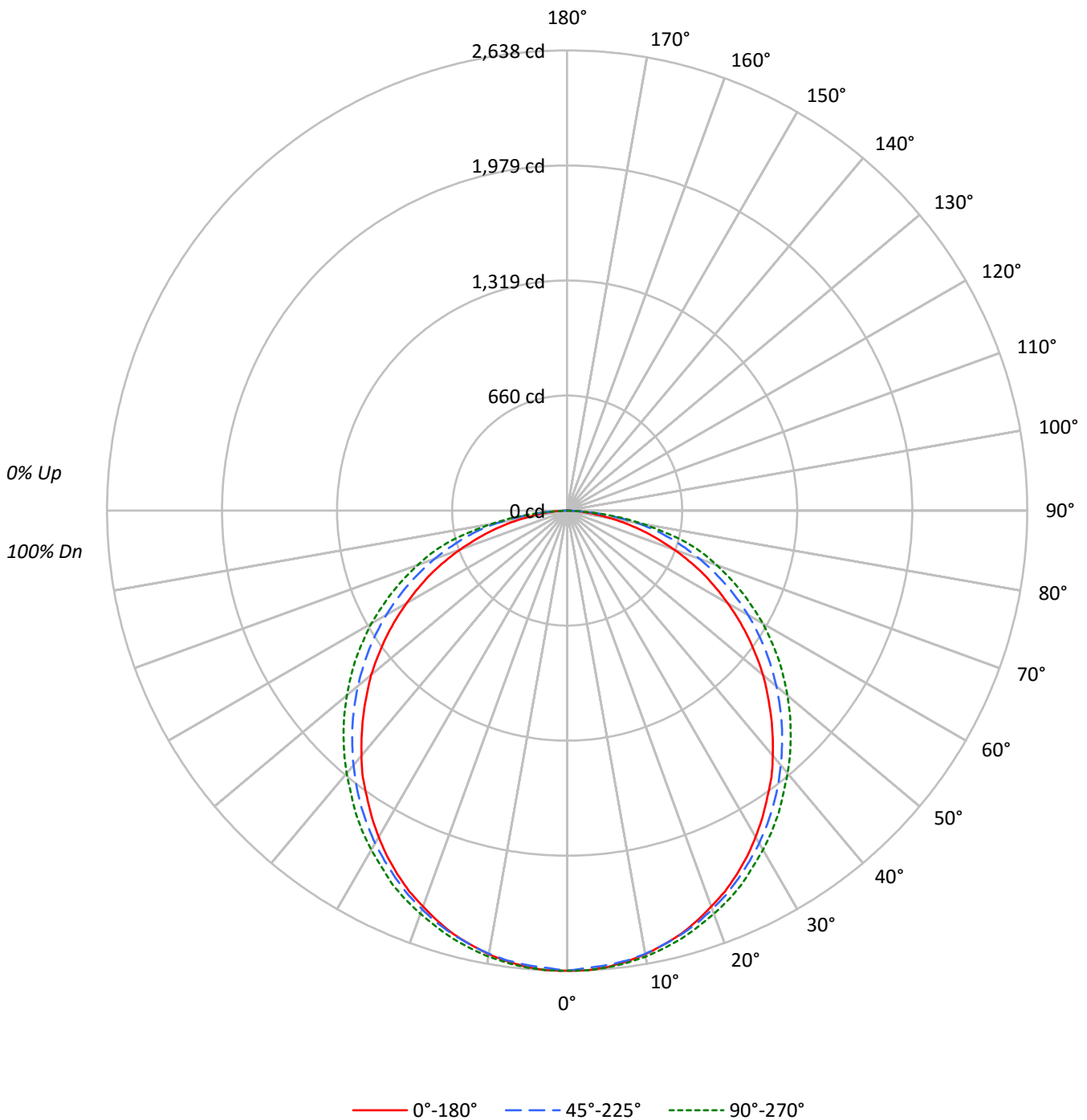
Lumens per Lamp: N/A  
Luminaire Lumens: 7678.0 lumens  
Efficiency: N/A  
Efficacy: 146.0 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 52.6  
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°	3549	3549	3549
5°	3548	3533	3552
10°	3529	3525	3548
15°	3502	3506	3537
20°	3459	3483	3522
25°	3415	3452	3513
30°	3357	3421	3489
35°	3288	3387	3472
40°	3222	3347	3453
45°	3141	3313	3449
50°	3071	3277	3449
55°	2972	3248	3467
60°	2863	3225	3490
65°	2750	3195	3518
70°	2567	3171	3581
75°	2338	3179	3692
80°	1933	3144	3399
85°	1482	2498	2413



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	249.4	3.2
10°-20°	712.1	9.3
20°-30°	1074.3	14.0
30°-40°	1289.7	16.8
40°-50°	1341.3	17.5
50°-60°	1233.6	16.1
60°-70°	983.2	12.8
70°-80°	623.0	8.1
80°-90°	171.3	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°	2035.8	26.5
0°-40°	3325.6	43.3
0°-60°	5900.5	76.8
0°-90°	7678.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7678.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2638	2638	2638	2638	2638	
5°	2627	2627	2616	2630	2630	249
15°	2514	2514	2517	2536	2539	709
25°	2300	2312	2325	2358	2366	1060
35°	2002	2024	2062	2100	2114	1254
45°	1651	1686	1741	1796	1812	1274
55°	1267	1308	1385	1453	1478	1132
65°	864	908	1004	1080	1105	851
75°	450	507	612	688	710	473
85°	96	137	162	159	156	114
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2637.8	2637.8	2637.8	2637.8	2637.8
2.5°	2637.8	2637.8	2624.1	2637.8	2637.8
5°	2626.8	2626.8	2615.9	2629.6	2629.6
7.5°	2607.6	2610.4	2602.2	2615.9	2615.9
10°	2583.0	2585.7	2580.2	2596.7	2596.7
12.5°	2550.1	2552.8	2550.1	2569.3	2569.3
15°	2514.4	2514.4	2517.2	2536.3	2539.1
17.5°	2467.8	2473.3	2478.8	2500.7	2500.7
20°	2415.7	2423.9	2432.2	2459.6	2459.6
22.5°	2363.6	2371.8	2382.8	2410.2	2415.7
25°	2300.5	2311.5	2325.2	2358.1	2366.3
27.5°	2234.7	2243.0	2264.9	2300.5	2303.3
30°	2160.7	2174.4	2201.8	2237.5	2245.7
32.5°	2083.9	2103.1	2133.3	2174.4	2182.6
35°	2001.7	2023.6	2062.0	2100.4	2114.1
37.5°	1924.9	1941.3	1985.2	2029.1	2037.3
40°	1834.4	1859.1	1905.7	1955.0	1966.0
42.5°	1743.9	1771.3	1823.4	1872.8	1892.0
45°	1650.7	1686.3	1741.2	1796.0	1812.5
47.5°	1557.5	1595.8	1653.4	1713.7	1732.9
50°	1467.0	1502.6	1565.7	1628.7	1647.9
52.5°	1365.5	1406.6	1475.2	1543.7	1562.9
55°	1266.8	1307.9	1384.7	1453.3	1477.9
57.5°	1165.3	1212.0	1291.5	1362.8	1384.7
60°	1063.9	1113.3	1198.3	1269.5	1297.0
62.5°	962.4	1009.1	1102.3	1173.6	1198.3
65°	863.7	907.6	1003.6	1080.3	1105.0
67.5°	756.8	806.1	904.9	984.4	1006.3
70°	652.6	702.0	806.1	888.4	910.3
72.5°	545.7	603.2	707.4	787.0	817.1
75°	449.7	507.3	611.5	688.2	710.2
77.5°	348.2	405.8	512.8	567.6	570.3
80°	249.5	315.3	405.8	427.8	438.7
82.5°	164.5	227.6	279.7	307.1	307.1
85°	96.0	137.1	161.8	159.0	156.3
87.5°	35.6	46.6	38.4	27.4	19.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)