

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: P383816

Luminaire Tested: **22ID-70-L840-CFR1**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383816  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-65)  
Test Lab: INNOVATION CENTER (G2)  
Issue Date: 2/25/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 22ID-70-L840-CFR1  
Description: 2X2 IN DEPTH TROFFER WITH 1INCH RECESSED COFFER LENS

Light Source: -  
Ballast/Driver: -

**Summary**

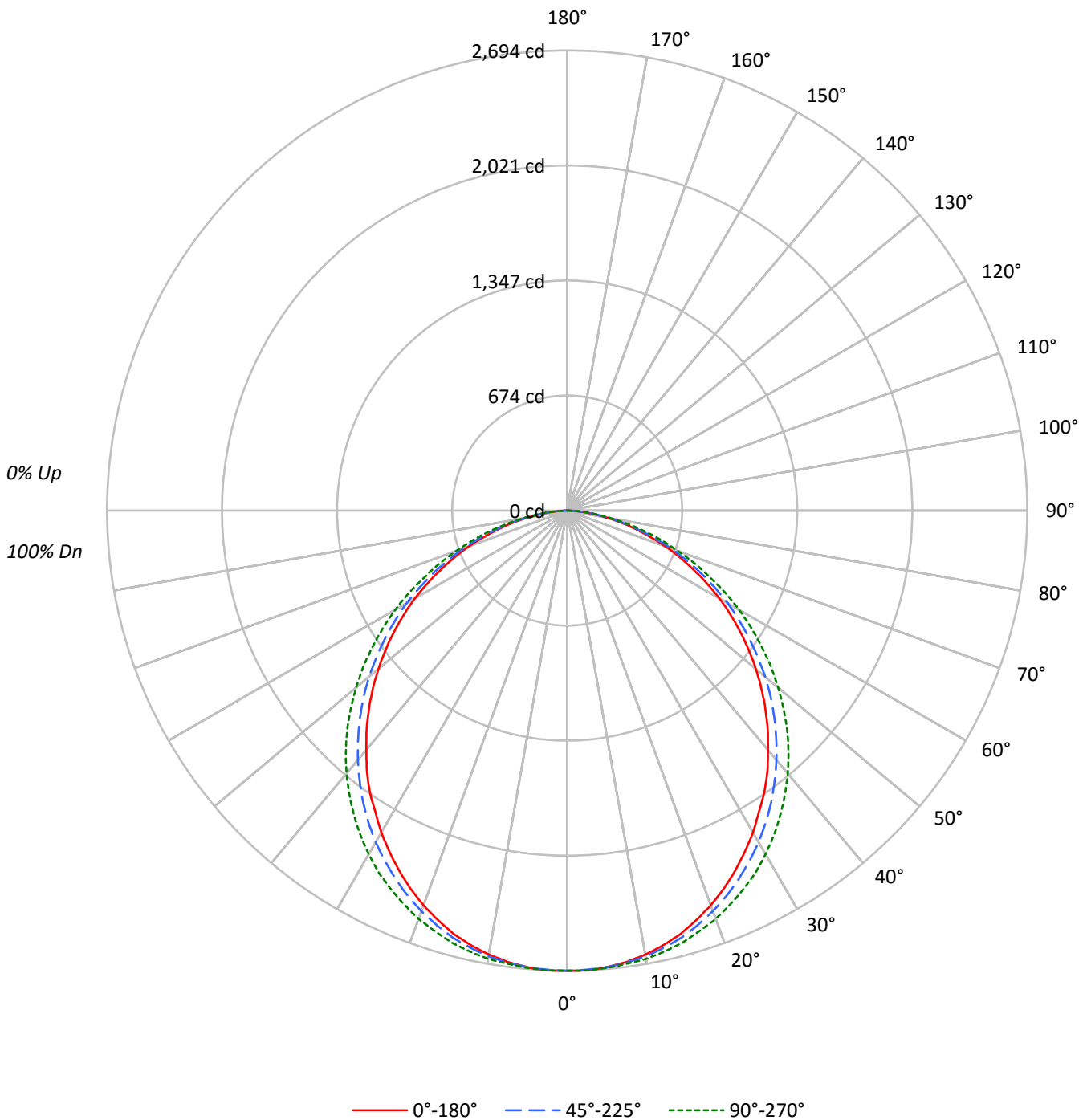
Lumens per Lamp: N/A  
Luminaire Lumens: 7317.6 lumens  
Efficiency: N/A  
Efficacy: 118.4 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.35  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 61.8  
Input Voltage (V): NR  
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



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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	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84					84			
2	99	91	84	79	97	89	83	78	86	81	76	82	78	74	79	76	73	71					71			
3	91	80	72	66	88	79	71	65	76	69	64	73	67	63	70	66	62	60					60			
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51					51			
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46	44					44			
6	71	57	48	42	69	56	48	42	55	47	42	53	46	41	51	45	41	39					39			
7	65	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34					34			
8	61	47	39	33	59	47	39	33	45	38	33	44	38	33	43	37	32	31					31			
9	57	44	35	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28					28			
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25					25			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	7251	7251	7251
5°	7249	7249	7258
10°	7212	7242	7282
15°	7148	7209	7291
20°	7041	7147	7284
25°	6907	7060	7257
30°	6760	6966	7217
35°	6614	6844	7146
40°	6426	6698	7060
45°	6248	6528	6934
50°	6041	6333	6749
55°	5803	6096	6528
60°	5547	5844	6260
65°	5180	5484	5859
70°	4807	5068	5415
75°	4287	4515	4899
80°	3594	3764	4107
85°	2726	2726	3069



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	255.0	3.5
10°-20°	729.7	10.0
20°-30°	1097.1	15.0
30°-40°	1305.2	17.8
40°-50°	1328.0	18.1
50°-60°	1168.8	16.0
60°-70°	857.4	11.7
70°-80°	465.4	6.4
80°-90°	111.0	1.5
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°	2081.8	28.4
0°-40°	3387.0	46.3
0°-60°	5883.8	80.4
0°-90°	7317.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7317.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2694	2694	2694	2694	2694	
5°	2683	2680	2683	2683	2687	255
15°	2566	2569	2588	2602	2617	723
25°	2326	2341	2378	2418	2444	1071
35°	2013	2028	2083	2146	2175	1257
45°	1642	1656	1715	1789	1822	1266
55°	1237	1255	1299	1362	1391	1106
65°	814	828	861	898	920	808
75°	412	420	434	456	471	438
85°	88	88	88	96	99	107
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2694.4	2694.4	2694.4	2694.4	2694.4
2.5°	2694.4	2690.7	2690.7	2690.7	2694.4
5°	2683.4	2679.7	2683.4	2683.4	2687.0
7.5°	2665.0	2661.3	2668.6	2672.3	2676.0
10°	2639.2	2639.2	2650.2	2657.6	2665.0
12.5°	2606.1	2609.7	2620.8	2631.8	2642.9
15°	2565.6	2569.3	2587.7	2602.4	2617.1
17.5°	2514.0	2521.4	2543.5	2565.6	2580.3
20°	2458.8	2469.9	2495.6	2525.1	2543.5
22.5°	2396.2	2411.0	2440.4	2477.2	2495.6
25°	2326.3	2341.0	2377.8	2418.3	2444.1
27.5°	2252.7	2271.1	2311.6	2359.4	2388.9
30°	2175.4	2193.8	2241.7	2293.2	2322.6
32.5°	2090.7	2112.8	2164.4	2223.2	2252.7
35°	2013.4	2028.2	2083.4	2146.0	2175.4
37.5°	1925.1	1943.5	1995.0	2061.3	2094.4
40°	1829.4	1847.8	1906.7	1972.9	2009.8
42.5°	1737.4	1752.1	1811.0	1884.6	1917.7
45°	1641.7	1656.4	1715.3	1788.9	1822.0
47.5°	1542.3	1560.7	1615.9	1685.8	1719.0
50°	1442.9	1457.6	1512.8	1579.1	1612.2
52.5°	1339.8	1354.6	1406.1	1472.4	1505.5
55°	1236.8	1255.2	1299.3	1361.9	1391.4
57.5°	1133.7	1152.1	1192.6	1251.5	1277.3
60°	1030.6	1045.4	1085.9	1137.4	1163.2
62.5°	920.2	931.3	971.8	1023.3	1045.4
65°	813.5	828.2	861.3	898.1	920.2
67.5°	714.1	721.5	750.9	791.4	806.1
70°	611.0	618.4	644.2	677.3	688.3
72.5°	508.0	519.0	537.4	566.9	581.6
75°	412.3	419.6	434.3	456.4	471.2
77.5°	320.2	323.9	335.0	353.4	364.4
80°	231.9	235.6	242.9	257.7	265.0
82.5°	154.6	158.3	162.0	169.3	176.7
85°	88.3	88.3	88.3	95.7	99.4
87.5°	33.1	29.4	29.4	29.4	29.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)