

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: P384140

Luminaire Tested: **22ID-55-L840-CFD1**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P384140  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-67)  
Test Lab: INNOVATION CENTER (G2)  
Issue Date: 2/25/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 22ID-55-L840-CFD1  
Description: 2X2 IN DEPTH TROFFER WITH 1INCH DROP CUBE LENS

Light Source: -  
Ballast/Driver: -

**Summary**

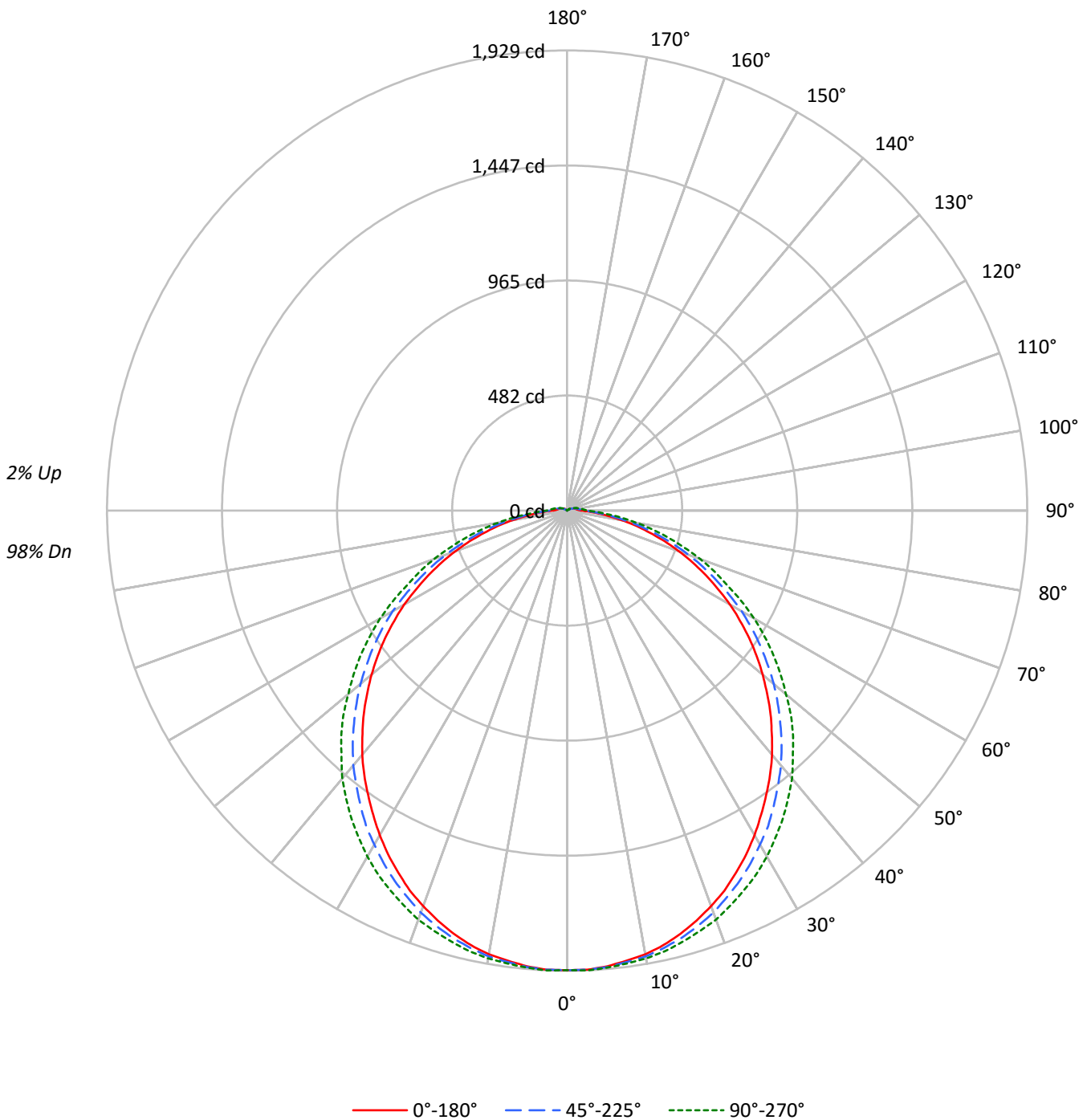
Lumens per Lamp: N/A  
Luminaire Lumens: 5705.5 lumens  
Efficiency: N/A  
Efficacy: 123.2 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.37  
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.08')  
CIE Type: Direct

Input Watts (W): 46.3  
Input Voltage (V): NR  
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	110	110	110		105	105	105		100	100	100	98
1	108	103	98	94	105	100	96	92	96	92	89		91	88	86		87	85	83	81
2	98	89	82	76	95	87	81	75	83	78	73		80	75	71		76	73	69	67
3	89	78	70	63	86	76	69	63	73	67	61		70	64	60		67	62	58	56
4	81	69	60	53	79	68	59	53	65	58	52		62	56	51		60	55	50	48
5	75	62	53	46	73	61	52	46	58	51	45		56	49	44		54	48	44	41
6	69	56	47	40	67	55	46	40	52	45	39		51	44	39		49	43	38	36
7	64	50	42	35	62	49	41	35	48	40	35		46	39	34		45	39	34	32
8	60	46	37	32	58	45	37	31	44	36	31		42	36	31		41	35	30	28
9	56	42	34	28	54	41	34	28	40	33	28		39	32	28		38	32	27	26
10	52	39	31	26	51	38	31	26	37	30	25		36	30	25		35	29	25	23

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

	0°	45°	90°
0°	5184	5184	5184
5°	5162	5162	5177
10°	5124	5132	5171
15°	5061	5085	5156
20°	4978	5028	5149
25°	4878	4948	5114
30°	4766	4859	5082
35°	4644	4764	5032
40°	4536	4667	4978
45°	4407	4543	4893
50°	4268	4424	4776
55°	4124	4281	4675
60°	3964	4125	4545
65°	3753	3892	4328
70°	3512	3663	4187
75°	3228	3353	3957
80°	2901	2990	3698
85°	2602	2668	3510



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	182.5	3.2
10°-20°	523.0	9.2
20°-30°	789.6	13.8
30°-40°	946.1	16.6
40°-50°	978.2	17.1
50°-60°	885.8	15.5
60°-70°	685.4	12.0
70°-80°	421.1	7.4
80°-90°	167.3	2.9
90°-100°	61.0	1.1
100°-110°	37.5	0.7
110°-120°	19.3	0.3
120°-130°	8.2	0.1
130°-140°	0.6	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°	1495.1	26.2
0°-40°	2441.2	42.8
0°-60°	4305.1	75.5
0°-90°	5578.9	97.8
90°-120°	117.8	2.1
90°-150°	126.6	2.2
90°-180°	127.0	2.2
0°-180°	5705.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1926	1926	1926	1926	1926	
5°	1918	1918	1921	1921	1924	182
15°	1837	1840	1854	1866	1872	518
25°	1675	1686	1712	1741	1756	772
35°	1455	1472	1510	1550	1576	911
45°	1206	1221	1264	1316	1339	930
55°	931	952	989	1033	1056	832
65°	642	657	688	723	740	635
75°	359	376	393	419	440	382
85°	124	133	145	159	168	124
90°	58	66	72	81	87	34
95°	43	49	55	61	66	35
105°	32	32	35	38	40	34
115°	20	17	17	20	23	21
125°	12	9	6	9	12	11
135°	0	0	0	0	0	1
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1926.4	1926.4	1926.4	1926.4	1926.4
2.5°	1926.4	1923.5	1926.4	1926.4	1929.3
5°	1917.8	1917.8	1920.7	1920.7	1923.5
7.5°	1903.3	1903.3	1909.1	1912.0	1914.9
10°	1888.8	1888.8	1897.5	1900.4	1906.2
12.5°	1865.7	1868.6	1877.3	1885.9	1891.7
15°	1836.8	1839.7	1854.1	1865.7	1871.5
17.5°	1802.1	1807.8	1825.2	1842.6	1848.3
20°	1764.5	1773.1	1793.4	1813.6	1825.2
22.5°	1724.0	1729.7	1752.9	1778.9	1790.5
25°	1674.8	1686.4	1712.4	1741.3	1755.8
27.5°	1625.6	1637.2	1666.1	1700.8	1718.2
30°	1570.7	1582.2	1616.9	1654.5	1674.8
32.5°	1512.8	1527.3	1567.8	1605.4	1625.6
35°	1455.0	1472.3	1509.9	1550.4	1576.4
37.5°	1397.1	1411.6	1452.1	1495.4	1521.5
40°	1336.4	1350.8	1394.2	1437.6	1466.5
42.5°	1269.8	1287.2	1330.6	1376.9	1400.0
45°	1206.2	1220.7	1264.0	1316.1	1339.3
47.5°	1136.8	1157.0	1197.5	1246.7	1272.7
50°	1070.2	1087.6	1131.0	1177.3	1197.5
52.5°	1000.8	1018.2	1058.7	1105.0	1128.1
55°	931.4	951.6	989.3	1032.6	1055.8
57.5°	859.1	879.3	916.9	954.5	980.6
60°	789.7	809.9	844.6	882.2	905.4
62.5°	711.6	728.9	766.5	807.0	824.4
65°	642.1	656.6	688.4	723.1	740.5
67.5°	569.8	587.2	616.1	647.9	668.2
70°	497.5	517.8	540.9	569.8	593.0
72.5°	428.1	445.5	465.7	494.6	514.9
75°	358.7	376.0	393.4	419.4	439.7
77.5°	297.9	306.6	324.0	347.1	367.4
80°	231.4	243.0	257.4	280.6	295.0
82.5°	173.6	185.1	196.7	214.0	228.5
85°	124.4	133.1	144.6	159.1	167.8
87.5°	83.9	92.6	101.2	112.8	121.5
90°	57.9	66.5	72.3	81.0	86.8
92.5°	49.2	55.0	60.7	66.5	72.3
95°	43.4	49.2	55.0	60.7	66.5
97.5°	40.5	43.4	49.2	55.0	57.9
100°	37.6	40.5	43.4	49.2	52.1
102.5°	34.7	34.7	40.5	43.4	46.3
105°	31.8	31.8	34.7	37.6	40.5
107.5°	28.9	28.9	31.8	31.8	37.6
110°	26.0	23.1	26.0	26.0	31.8



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	23.1	20.2	23.1	23.1	26.0
115°	20.2	17.4	17.4	20.2	23.1
117.5°	17.4	14.5	14.5	14.5	20.2
120°	17.4	14.5	11.6	11.6	17.4
122.5°	14.5	11.6	8.7	11.6	14.5
125°	11.6	8.7	5.8	8.7	11.6
127.5°	8.7	8.7	2.9	5.8	8.7
130°	8.7	5.8	2.9	5.8	5.8
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)