

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: P384112

Luminaire Tested: **22ID-20-L840-CFD1**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P384112  
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-20-L840-CFD1  
Description: 2X2 IN DEPTH TROFFER WITH 1INCH DROP CUBE LENS

Light Source: -  
Ballast/Driver: -

**Summary**

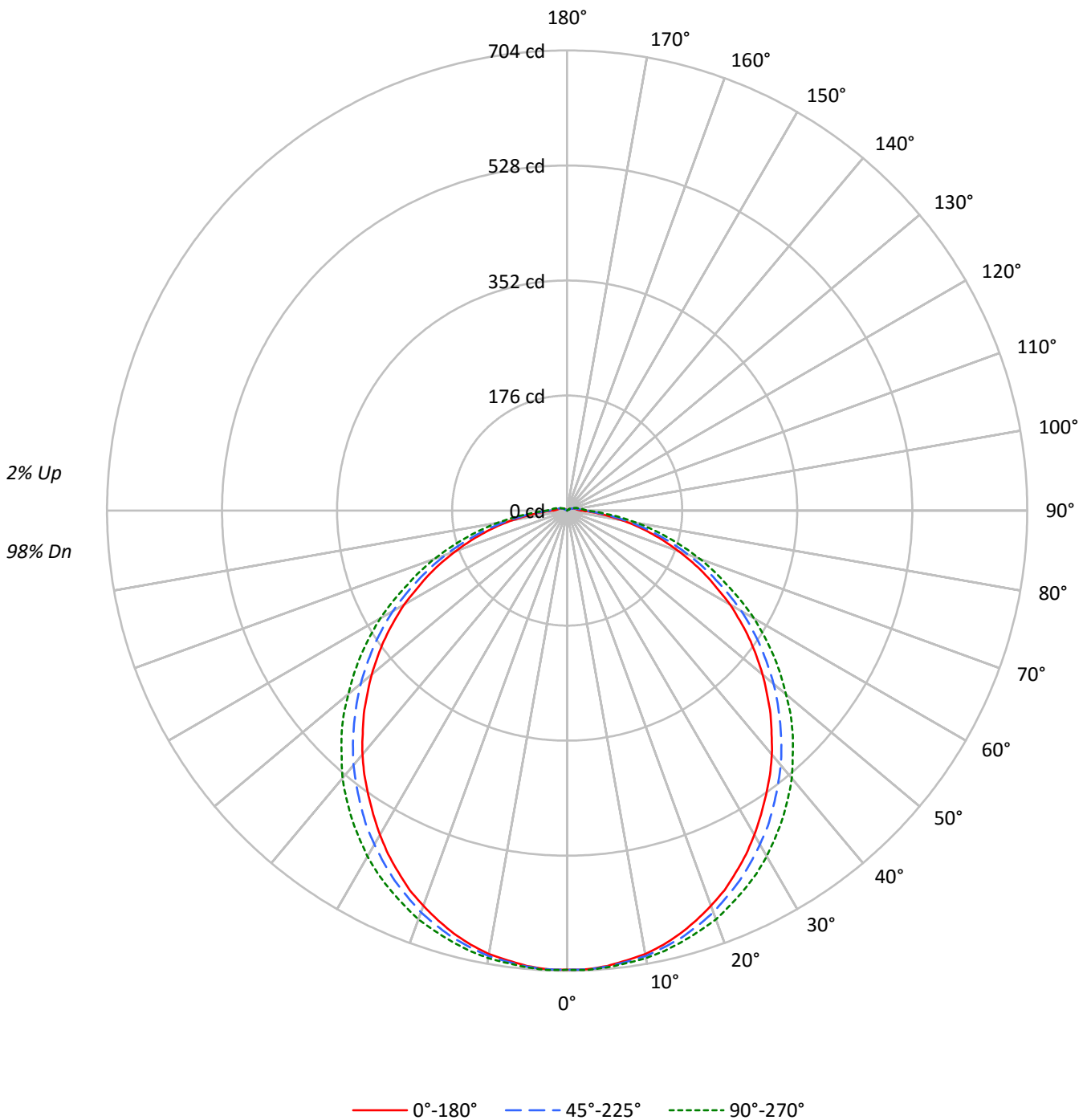
Lumens per Lamp: N/A  
Luminaire Lumens: 2080.7 lumens  
Efficiency: N/A  
Efficacy: 127.6 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.37  
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.08')  
CIE Type: Direct

Input Watts (W): 16.3  
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	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°	1890	1890	1890
5°	1882	1882	1888
10°	1868	1871	1886
15°	1845	1855	1880
20°	1815	1834	1878
25°	1779	1805	1865
30°	1738	1772	1853
35°	1694	1737	1835
40°	1654	1702	1815
45°	1607	1657	1784
50°	1557	1614	1742
55°	1504	1561	1705
60°	1446	1504	1658
65°	1369	1420	1578
70°	1281	1336	1526
75°	1177	1223	1442
80°	1058	1091	1349
85°	950	972	1280



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	66.5	3.2
10°-20°	190.7	9.2
20°-30°	288.0	13.8
30°-40°	345.0	16.6
40°-50°	356.7	17.1
50°-60°	323.0	15.5
60°-70°	250.0	12.0
70°-80°	153.5	7.4
80°-90°	61.0	2.9
90°-100°	22.3	1.1
100°-110°	13.7	0.7
110°-120°	7.0	0.3
120°-130°	3.0	0.1
130°-140°	0.2	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°	545.2	26.2
0°-40°	890.2	42.8
0°-60°	1570.0	75.5
0°-90°	2034.5	97.8
90°-120°	43.0	2.1
90°-150°	46.2	2.2
90°-180°	46.0	2.2
0°-180°	2080.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	702	702	702	702	702	
5°	699	699	700	700	702	66
15°	670	671	676	680	682	189
25°	611	615	624	635	640	281
35°	531	537	551	565	575	332
45°	440	445	461	480	488	339
55°	340	347	361	377	385	304
65°	234	240	251	264	270	232
75°	131	137	144	153	160	139
85°	45	48	53	58	61	45
90°	21	24	26	30	32	12
95°	16	18	20	22	24	13
105°	12	12	13	14	15	12
115°	7	6	6	7	8	7
125°	4	3	2	3	4	4
135°	0	0	0	0	0	0
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°	702.5	702.5	702.5	702.5	702.5
2.5°	702.5	701.5	702.5	702.5	703.6
5°	699.4	699.4	700.4	700.4	701.5
7.5°	694.1	694.1	696.2	697.3	698.3
10°	688.8	688.8	692.0	693.0	695.2
12.5°	680.4	681.4	684.6	687.8	689.9
15°	669.8	670.9	676.2	680.4	682.5
17.5°	657.2	659.3	665.6	671.9	674.1
20°	643.5	646.6	654.0	661.4	665.6
22.5°	628.7	630.8	639.2	648.7	653.0
25°	610.8	615.0	624.5	635.0	640.3
27.5°	592.8	597.1	607.6	620.3	626.6
30°	572.8	577.0	589.7	603.4	610.8
32.5°	551.7	557.0	571.7	585.5	592.8
35°	530.6	536.9	550.6	565.4	574.9
37.5°	509.5	514.8	529.5	545.4	554.9
40°	487.3	492.6	508.4	524.3	534.8
42.5°	463.1	469.4	485.2	502.1	510.6
45°	439.9	445.2	461.0	480.0	488.4
47.5°	414.6	421.9	436.7	454.6	464.1
50°	390.3	396.6	412.5	429.3	436.7
52.5°	365.0	371.3	386.1	403.0	411.4
55°	339.7	347.1	360.8	376.6	385.0
57.5°	313.3	320.7	334.4	348.1	357.6
60°	288.0	295.4	308.0	321.7	330.2
62.5°	259.5	265.8	279.5	294.3	300.6
65°	234.2	239.5	251.1	263.7	270.0
67.5°	207.8	214.1	224.7	236.3	243.7
70°	181.4	188.8	197.3	207.8	216.2
72.5°	156.1	162.4	169.8	180.4	187.8
75°	130.8	137.1	143.5	153.0	160.3
77.5°	108.7	111.8	118.1	126.6	134.0
80°	84.4	88.6	93.9	102.3	107.6
82.5°	63.3	67.5	71.7	78.1	83.3
85°	45.4	48.5	52.7	58.0	61.2
87.5°	30.6	33.8	36.9	41.1	44.3
90°	21.1	24.3	26.4	29.5	31.6
92.5°	17.9	20.0	22.2	24.3	26.4
95°	15.8	17.9	20.0	22.2	24.3
97.5°	14.8	15.8	17.9	20.0	21.1
100°	13.7	14.8	15.8	17.9	19.0
102.5°	12.7	12.7	14.8	15.8	16.9
105°	11.6	11.6	12.7	13.7	14.8
107.5°	10.5	10.5	11.6	11.6	13.7
110°	9.5	8.4	9.5	9.5	11.6



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	8.4	7.4	8.4	8.4	9.5
115°	7.4	6.3	6.3	7.4	8.4
117.5°	6.3	5.3	5.3	5.3	7.4
120°	6.3	5.3	4.2	4.2	6.3
122.5°	5.3	4.2	3.2	4.2	5.3
125°	4.2	3.2	2.1	3.2	4.2
127.5°	3.2	3.2	1.1	2.1	3.2
130°	3.2	2.1	1.1	2.1	2.1
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)