

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: P384225

Luminaire Tested: **14ID-20-L850-CFD2**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P384225  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-68)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 2/25/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 14ID-20-L850-CFD2  
Description: 1X4 IN DEPTH TROFFER WITH 2INCH DROP CUBE LENS

Light Source: -  
Ballast/Driver: -

**Summary**

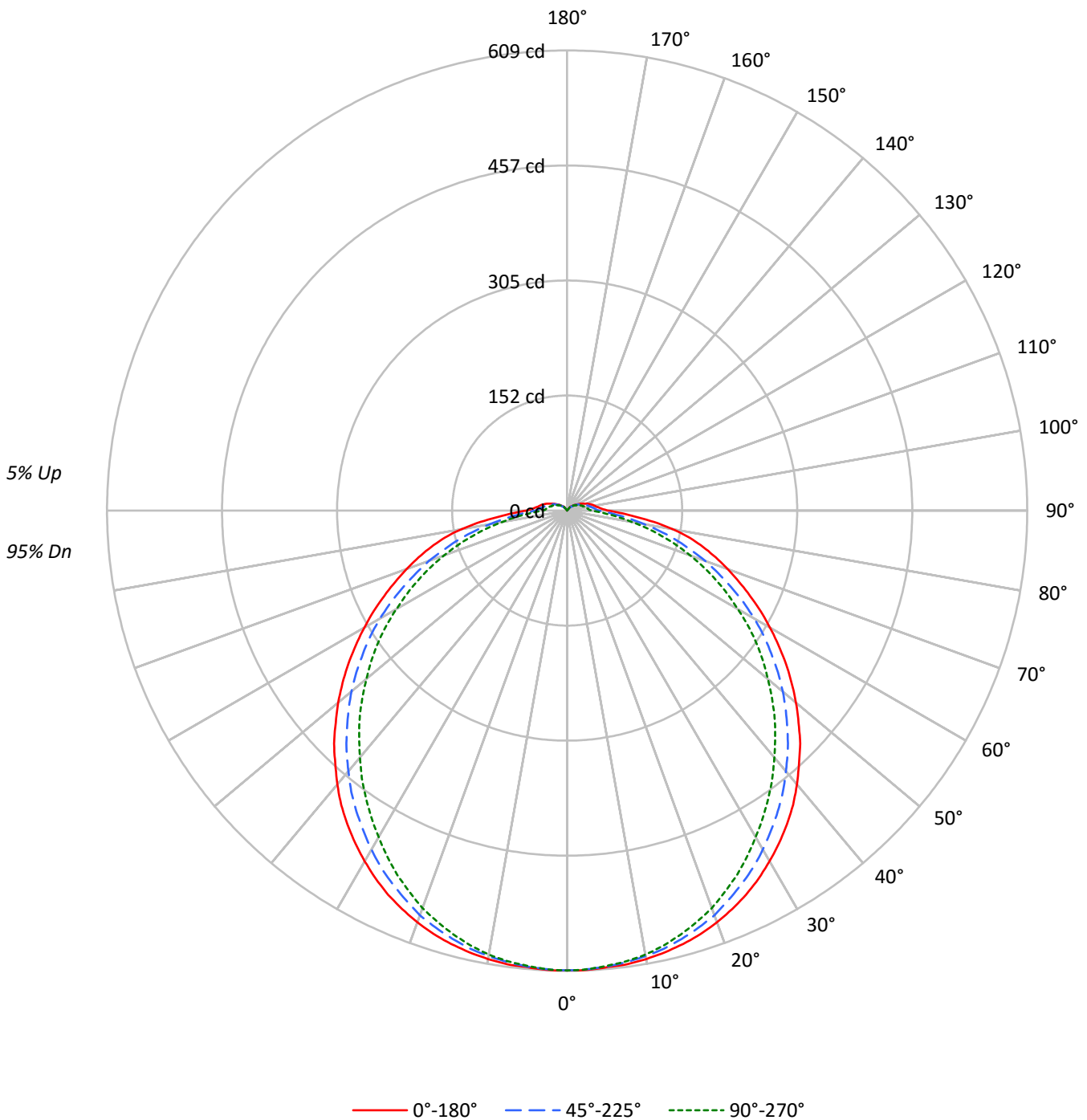
Lumens per Lamp: N/A  
Luminaire Lumens: 1974.1 lumens  
Efficiency: N/A  
Efficacy: 119.6 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 1.22 / 1.38  
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.17')  
CIE Type: Direct

Input Watts (W): 16.5  
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	118	118	118	118	114	114	114	114	108	108	108	102	102	102	97	97	97	95
1	106	101	96	92	103	98	94	90	93	90	86	88	85	83	84	81	79	77
2	96	87	80	74	93	85	78	73	81	75	70	77	72	68	73	69	66	63
3	87	76	68	61	84	74	67	60	71	64	58	67	62	57	64	59	55	53
4	80	68	58	51	77	66	57	51	63	55	50	60	53	48	57	51	47	45
5	73	60	51	44	71	59	50	44	56	48	43	53	47	42	51	45	41	38
6	68	54	45	38	65	53	44	38	50	43	37	48	42	36	46	40	36	33
7	63	49	40	34	61	48	39	33	46	38	33	44	37	32	42	36	32	30
8	58	45	36	30	56	44	35	30	42	35	29	40	34	29	39	33	28	26
9	54	41	33	27	53	40	32	27	39	31	26	37	31	26	36	30	25	24
10	51	38	30	24	50	37	29	24	36	29	24	34	28	23	33	27	23	21

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

	0°	45°	90°
0°	1638	1638	1638
5°	1633	1615	1610
10°	1635	1595	1584
15°	1636	1572	1549
20°	1636	1549	1511
25°	1633	1517	1465
30°	1626	1483	1415
35°	1618	1448	1366
40°	1606	1408	1314
45°	1594	1368	1267
50°	1577	1327	1211
55°	1566	1278	1159
60°	1555	1226	1090
65°	1561	1157	1019
70°	1596	1088	935
75°	1676	996	830
80°	1786	875	699
85°	1876	756	572



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	57.6	2.9
10°-20°	165.6	8.4
20°-30°	251.6	12.7
30°-40°	303.9	15.4
40°-50°	318.1	16.1
50°-60°	295.1	15.0
60°-70°	239.1	12.1
70°-80°	161.3	8.2
80°-90°	77.9	3.9
90°-100°	39.2	2.0
100°-110°	28.5	1.4
110°-120°	19.0	1.0
120°-130°	11.1	0.6
130°-140°	5.6	0.3
140°-150°	0.4	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	474.8	24.1
0°-40°	778.8	39.4
0°-60°	1392.0	70.5
0°-90°	1870.3	94.7
90°-120°	86.8	4.4
90°-150°	103.8	5.3
90°-180°	104.0	5.3
0°-180°	1974.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	609	609	609	609	609	
5°	607	606	606	605	605	58
15°	594	591	587	583	581	168
25°	561	556	546	536	532	258
35°	507	500	486	471	464	317
45°	436	428	412	396	388	336
55°	354	346	330	314	306	316
65°	267	257	239	226	217	265
75°	186	167	148	138	130	196
85°	90	78	66	60	54	85
90°	54	49	42	38	32	31
95°	43	40	36	32	28	34
105°	32	30	27	24	22	34
115°	22	20	20	17	17	22
125°	14	12	13	11	12	12
135°	8	7	7	7	8	6
145°	0	0	0	0	0	1
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°	608.7	608.7	608.7	608.7	608.7
2.5°	608.7	607.7	607.7	607.7	607.7
5°	606.7	605.7	605.7	604.7	604.7
7.5°	605.7	603.7	602.7	601.7	601.7
10°	602.7	600.7	598.7	596.7	596.7
12.5°	598.7	596.7	593.7	589.7	589.7
15°	593.7	590.7	586.7	582.8	580.8
17.5°	587.7	584.7	578.8	572.8	570.8
20°	579.8	575.8	569.8	561.8	559.8
22.5°	570.8	566.8	557.8	549.9	545.9
25°	560.8	555.9	545.9	535.9	531.9
27.5°	548.9	543.9	532.9	521.0	516.0
30°	535.9	530.0	518.0	505.1	499.1
32.5°	522.0	515.0	502.1	488.1	482.1
35°	507.0	500.1	486.1	471.2	464.2
37.5°	491.1	484.1	469.2	453.3	446.3
40°	473.2	466.2	450.3	434.3	426.4
42.5°	454.2	448.3	432.3	415.4	407.4
45°	436.3	428.3	412.4	395.5	388.5
47.5°	415.4	409.4	392.5	375.6	367.6
50°	395.5	388.5	372.6	355.6	346.7
52.5°	374.6	368.6	351.6	334.7	326.7
55°	353.6	345.7	329.7	313.8	305.8
57.5°	331.7	324.7	308.8	293.9	283.9
60°	309.8	302.8	285.9	272.0	261.0
62.5°	288.9	280.9	263.0	248.0	239.1
65°	267.0	257.0	239.1	226.1	217.2
67.5°	246.1	234.1	216.2	204.2	195.2
70°	226.1	212.2	194.3	182.3	173.3
72.5°	206.2	189.3	170.3	159.4	151.4
75°	186.3	167.4	148.4	137.5	129.5
77.5°	166.4	144.4	125.5	116.6	108.6
80°	142.5	121.5	103.6	95.6	87.7
82.5°	115.6	98.6	83.7	75.7	69.7
85°	89.7	77.7	65.7	59.8	53.8
87.5°	69.7	60.8	51.8	46.8	41.8
90°	53.8	48.8	41.8	37.9	31.9
92.5°	46.8	42.8	37.9	33.9	28.9
95°	42.8	39.8	35.9	31.9	27.9
97.5°	38.9	36.9	32.9	29.9	25.9
100°	36.9	33.9	30.9	27.9	24.9
102.5°	34.9	31.9	28.9	25.9	23.9
105°	31.9	29.9	26.9	23.9	21.9
107.5°	29.9	26.9	24.9	21.9	20.9
110°	26.9	24.9	22.9	20.9	19.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	23.9	22.9	20.9	18.9	17.9
115°	21.9	19.9	19.9	16.9	16.9
117.5°	19.9	17.9	17.9	15.9	15.9
120°	16.9	15.9	15.9	13.9	13.9
122.5°	14.9	13.9	13.9	13.0	13.0
125°	13.9	12.0	13.0	11.0	12.0
127.5°	12.0	11.0	11.0	10.0	11.0
130°	10.0	9.0	9.0	9.0	10.0
132.5°	9.0	8.0	8.0	8.0	9.0
135°	8.0	7.0	7.0	7.0	8.0
137.5°	7.0	6.0	5.0	6.0	7.0
140°	6.0	5.0	4.0	5.0	6.0
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)