

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: P384083

Luminaire Tested: **14ID-55-L835-CFD1**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P384083  
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: 14ID-55-L835-CFD1  
Description: 1X4 IN DEPTH TROFFER WITH 1INCH DROP CUBE LENS

Light Source: -  
Ballast/Driver: -

**Summary**

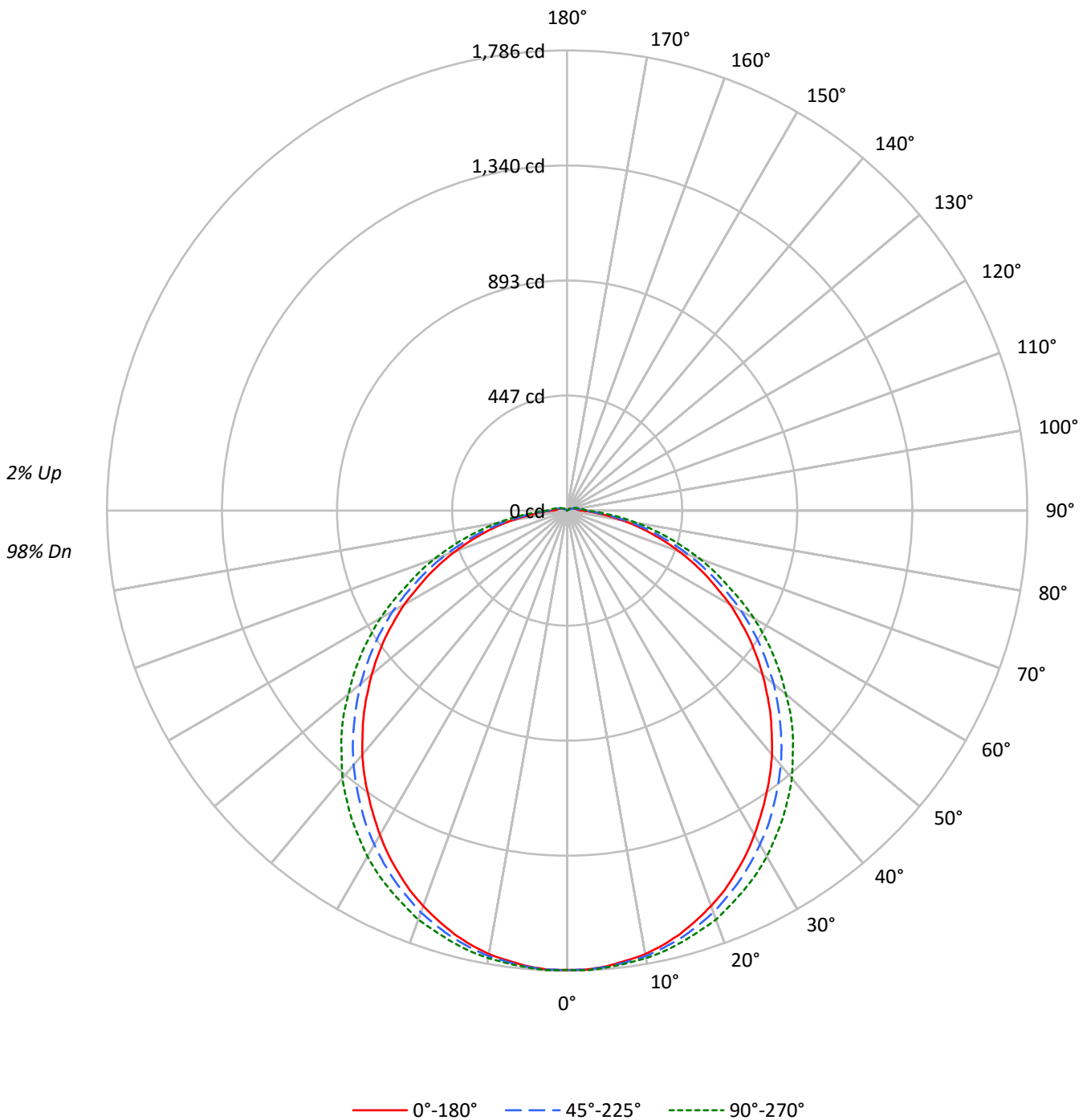
Lumens per Lamp: N/A  
Luminaire Lumens: 5280.3 lumens  
Efficiency: N/A  
Efficacy: 109.6 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.37  
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.08')  
CIE Type: Direct

Input Watts (W): 48.2  
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°	4798	4798	4798
5°	4785	4771	4774
10°	4759	4737	4751
15°	4709	4688	4720
20°	4641	4629	4695
25°	4558	4549	4644
30°	4463	4460	4595
35°	4360	4366	4529
40°	4270	4269	4456
45°	4162	4147	4354
50°	4046	4028	4221
55°	3927	3886	4097
60°	3796	3731	3941
65°	3622	3503	3702
70°	3426	3276	3514
75°	3202	2970	3227
80°	2969	2605	2874
85°	2871	2243	2456



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	168.9	3.2
10°-20°	484.0	9.2
20°-30°	730.8	13.8
30°-40°	875.6	16.6
40°-50°	905.3	17.1
50°-60°	819.8	15.5
60°-70°	634.3	12.0
70°-80°	389.7	7.4
80°-90°	154.8	2.9
90°-100°	56.5	1.1
100°-110°	34.7	0.7
110°-120°	17.8	0.3
120°-130°	7.6	0.1
130°-140°	0.5	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°	1383.6	26.2
0°-40°	2259.2	42.8
0°-60°	3984.3	75.5
0°-90°	5163.1	97.8
90°-120°	109.0	2.1
90°-150°	117.2	2.2
90°-180°	117.0	2.2
0°-180°	5280.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1783	1783	1783	1783	1783	
5°	1775	1775	1778	1778	1780	169
15°	1700	1703	1716	1727	1732	479
25°	1550	1561	1585	1612	1625	714
35°	1346	1363	1397	1435	1459	843
45°	1116	1130	1170	1218	1239	860
55°	862	881	916	956	977	770
65°	594	608	637	669	685	588
75°	332	348	364	388	407	354
85°	115	123	134	147	155	115
90°	54	62	67	75	80	32
95°	40	46	51	56	62	32
105°	29	29	32	35	38	31
115°	19	16	16	19	21	19
125°	11	8	5	8	11	10
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°	1782.9	1782.9	1782.9	1782.9	1782.9
2.5°	1782.9	1780.2	1782.9	1782.9	1785.5
5°	1774.8	1774.8	1777.5	1777.5	1780.2
7.5°	1761.5	1761.5	1766.8	1769.5	1772.2
10°	1748.1	1748.1	1756.1	1758.8	1764.1
12.5°	1726.7	1729.3	1737.4	1745.4	1750.7
15°	1699.9	1702.6	1715.9	1726.7	1732.0
17.5°	1667.8	1673.1	1689.2	1705.2	1710.6
20°	1633.0	1641.0	1659.7	1678.5	1689.2
22.5°	1595.5	1600.8	1622.3	1646.3	1657.1
25°	1550.0	1560.7	1584.8	1611.5	1624.9
27.5°	1504.5	1515.2	1541.9	1574.1	1590.1
30°	1453.6	1464.3	1496.4	1531.2	1550.0
32.5°	1400.1	1413.4	1450.9	1485.7	1504.5
35°	1346.5	1362.6	1397.4	1434.9	1459.0
37.5°	1293.0	1306.4	1343.8	1384.0	1408.1
40°	1236.8	1250.2	1290.3	1330.5	1357.2
42.5°	1175.2	1191.3	1231.4	1274.2	1295.7
45°	1116.3	1129.7	1169.8	1218.0	1239.4
47.5°	1052.1	1070.8	1108.3	1153.8	1177.9
50°	990.5	1006.5	1046.7	1089.5	1108.3
52.5°	926.2	942.3	979.8	1022.6	1044.0
55°	862.0	880.7	915.5	955.7	977.1
57.5°	795.1	813.8	848.6	883.4	907.5
60°	730.8	749.6	781.7	816.5	837.9
62.5°	658.5	674.6	709.4	746.9	762.9
65°	594.3	607.7	637.1	669.2	685.3
67.5°	527.4	543.4	570.2	599.6	618.4
70°	460.4	479.2	500.6	527.4	548.8
72.5°	396.2	412.3	431.0	457.8	476.5
75°	331.9	348.0	364.1	388.2	406.9
77.5°	275.7	283.8	299.8	321.2	340.0
80°	214.2	224.9	238.3	259.7	273.1
82.5°	160.6	171.3	182.0	198.1	211.5
85°	115.1	123.1	133.8	147.2	155.3
87.5°	77.6	85.7	93.7	104.4	112.4
90°	53.5	61.6	66.9	75.0	80.3
92.5°	45.5	50.9	56.2	61.6	66.9
95°	40.2	45.5	50.9	56.2	61.6
97.5°	37.5	40.2	45.5	50.9	53.5
100°	34.8	37.5	40.2	45.5	48.2
102.5°	32.1	32.1	37.5	40.2	42.8
105°	29.4	29.4	32.1	34.8	37.5
107.5°	26.8	26.8	29.4	29.4	34.8
110°	24.1	21.4	24.1	24.1	29.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	21.4	18.7	21.4	21.4	24.1
115°	18.7	16.1	16.1	18.7	21.4
117.5°	16.1	13.4	13.4	13.4	18.7
120°	16.1	13.4	10.7	10.7	16.1
122.5°	13.4	10.7	8.0	10.7	13.4
125°	10.7	8.0	5.4	8.0	10.7
127.5°	8.0	8.0	2.7	5.4	8.0
130°	8.0	5.4	2.7	5.4	5.4
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)