

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: P384234

Luminaire Tested: **14ID-35-L830-CFD2**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P384234  
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-35-L830-CFD2  
Description: 1X4 IN DEPTH TROFFER WITH 2INCH DROP CUBE LENS

Light Source: -  
Ballast/Driver: -

**Summary**

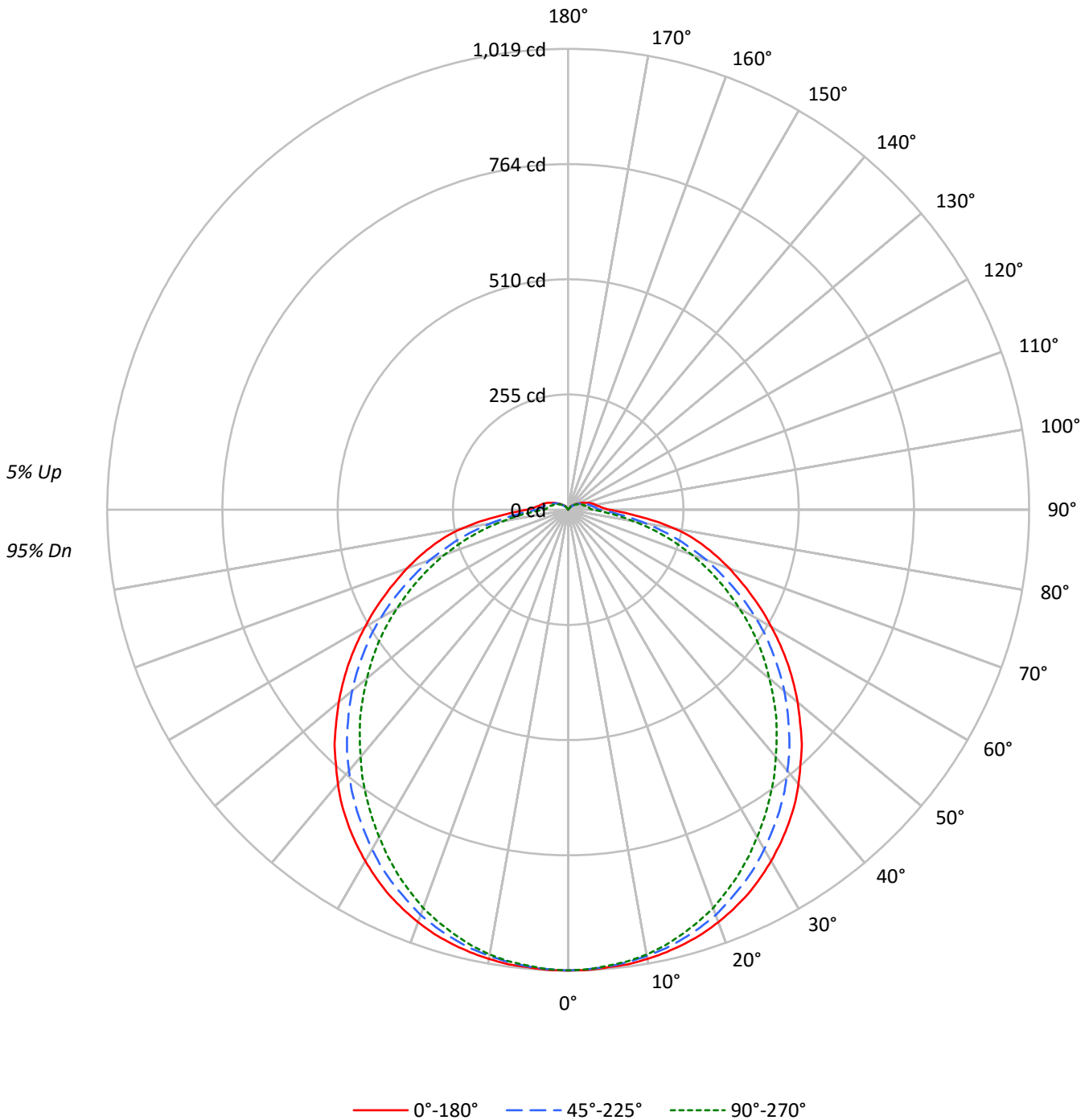
Lumens per Lamp: N/A  
Luminaire Lumens: 3304.5 lumens  
Efficiency: N/A  
Efficacy: 116.4 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 1.22 / 1.38  
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.17')  
CIE Type: Direct

Input Watts (W): 28.4  
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



TEST NUMBER: P384234  
CATALOG NUMBER: 14ID-35-L830-CFD2

### Luminous Intensity Polar Plot





TEST NUMBER: P384234

CATALOG NUMBER: 14ID-35-L830-CFD2

**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°	2742	2742	2742
5°	2733	2704	2695
10°	2736	2669	2651
15°	2738	2632	2592
20°	2738	2592	2530
25°	2734	2539	2453
30°	2722	2483	2368
35°	2709	2423	2286
40°	2689	2356	2199
45°	2668	2290	2121
50°	2640	2221	2027
55°	2621	2139	1940
60°	2603	2052	1825
65°	2612	1936	1705
70°	2672	1821	1566
75°	2806	1667	1390
80°	2990	1464	1169
85°	3139	1267	957



TEST NUMBER: P384234

CATALOG NUMBER: 14ID-35-L830-CFD2

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	96.4	2.9
10°-20°	277.3	8.4
20°-30°	421.2	12.7
30°-40°	508.7	15.4
40°-50°	532.4	16.1
50°-60°	494.0	15.0
60°-70°	400.2	12.1
70°-80°	270.1	8.2
80°-90°	130.5	3.9
90°-100°	65.6	2.0
100°-110°	47.7	1.4
110°-120°	31.9	1.0
120°-130°	18.5	0.6
130°-140°	9.3	0.3
140°-150°	0.7	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	794.9	24.1
0°-40°	1303.6	39.4
0°-60°	2330.0	70.5
0°-90°	3130.7	94.7
90°-120°	145.2	4.4
90°-150°	173.7	5.3
90°-180°	174.0	5.3
0°-180°	3304.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1019	1019	1019	1019	1019	
5°	1016	1014	1014	1012	1012	97
15°	994	989	982	976	972	281
25°	939	930	914	897	890	433
35°	849	837	814	789	777	531
45°	730	717	690	662	650	563
55°	592	579	552	525	512	529
65°	447	430	400	378	364	444
75°	312	280	248	230	217	328
85°	150	130	110	100	90	142
90°	90	82	70	63	53	51
95°	72	67	60	53	47	56
105°	53	50	45	40	37	57
115°	37	33	33	28	28	36
125°	23	20	22	18	20	20
135°	13	12	12	12	13	10
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



TEST NUMBER: P384234

CATALOG NUMBER: 14ID-35-L830-CFD2

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1018.8	1018.8	1018.8	1018.8	1018.8
2.5°	1018.8	1017.2	1017.2	1017.2	1017.2
5°	1015.5	1013.8	1013.8	1012.2	1012.2
7.5°	1013.8	1010.5	1008.8	1007.2	1007.2
10°	1008.8	1005.5	1002.2	998.8	998.8
12.5°	1002.2	998.8	993.8	987.2	987.2
15°	993.8	988.8	982.2	975.5	972.1
17.5°	983.8	978.8	968.8	958.8	955.5
20°	970.5	963.8	953.8	940.5	937.1
22.5°	955.5	948.8	933.8	920.5	913.8
25°	938.8	930.5	913.8	897.1	890.4
27.5°	918.8	910.5	892.1	872.1	863.8
30°	897.1	887.1	867.1	845.4	835.4
32.5°	873.8	862.1	840.4	817.1	807.1
35°	848.8	837.1	813.7	788.7	777.1
37.5°	822.1	810.4	785.4	758.7	747.0
40°	792.1	780.4	753.7	727.0	713.7
42.5°	760.4	750.4	723.7	695.3	682.0
45°	730.4	717.0	690.3	662.0	650.3
47.5°	695.3	685.3	657.0	628.6	615.3
50°	662.0	650.3	623.6	595.3	580.3
52.5°	627.0	617.0	588.6	560.3	546.9
55°	592.0	578.6	551.9	525.3	511.9
57.5°	555.3	543.6	516.9	491.9	475.2
60°	518.6	506.9	478.6	455.2	436.9
62.5°	483.6	470.2	440.2	415.2	400.2
65°	446.9	430.2	400.2	378.5	363.5
67.5°	411.9	391.9	361.8	341.8	326.8
70°	378.5	355.2	325.2	305.2	290.1
72.5°	345.2	316.8	285.1	266.8	253.5
75°	311.8	280.1	248.5	230.1	216.8
77.5°	278.5	241.8	210.1	195.1	181.8
80°	238.5	203.4	173.4	160.1	146.7
82.5°	193.4	165.1	140.1	126.7	116.7
85°	150.1	130.1	110.1	100.0	90.0
87.5°	116.7	101.7	86.7	78.4	70.0
90°	90.0	81.7	70.0	63.4	53.4
92.5°	78.4	71.7	63.4	56.7	48.4
95°	71.7	66.7	60.0	53.4	46.7
97.5°	65.0	61.7	55.0	50.0	43.4
100°	61.7	56.7	51.7	46.7	41.7
102.5°	58.4	53.4	48.4	43.4	40.0
105°	53.4	50.0	45.0	40.0	36.7
107.5°	50.0	45.0	41.7	36.7	35.0
110°	45.0	41.7	38.4	35.0	33.3



TEST NUMBER: P384234

CATALOG NUMBER: 14ID-35-L830-CFD2

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	40.0	38.4	35.0	31.7	30.0
115°	36.7	33.3	33.3	28.3	28.3
117.5°	33.3	30.0	30.0	26.7	26.7
120°	28.3	26.7	26.7	23.3	23.3
122.5°	25.0	23.3	23.3	21.7	21.7
125°	23.3	20.0	21.7	18.3	20.0
127.5°	20.0	18.3	18.3	16.7	18.3
130°	16.7	15.0	15.0	15.0	16.7
132.5°	15.0	13.3	13.3	13.3	15.0
135°	13.3	11.7	11.7	11.7	13.3
137.5°	11.7	10.0	8.3	10.0	11.7
140°	10.0	8.3	6.7	8.3	10.0
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)