

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: P384175

Luminaire Tested: **24ID-35-L835-CFD1**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P384175  
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: 24ID-35-L835-CFD1  
Description: 2X4 IN DEPTH TROFFER WITH 1INCH DROP CUBE LENS

Light Source: -  
Ballast/Driver: -

**Summary**

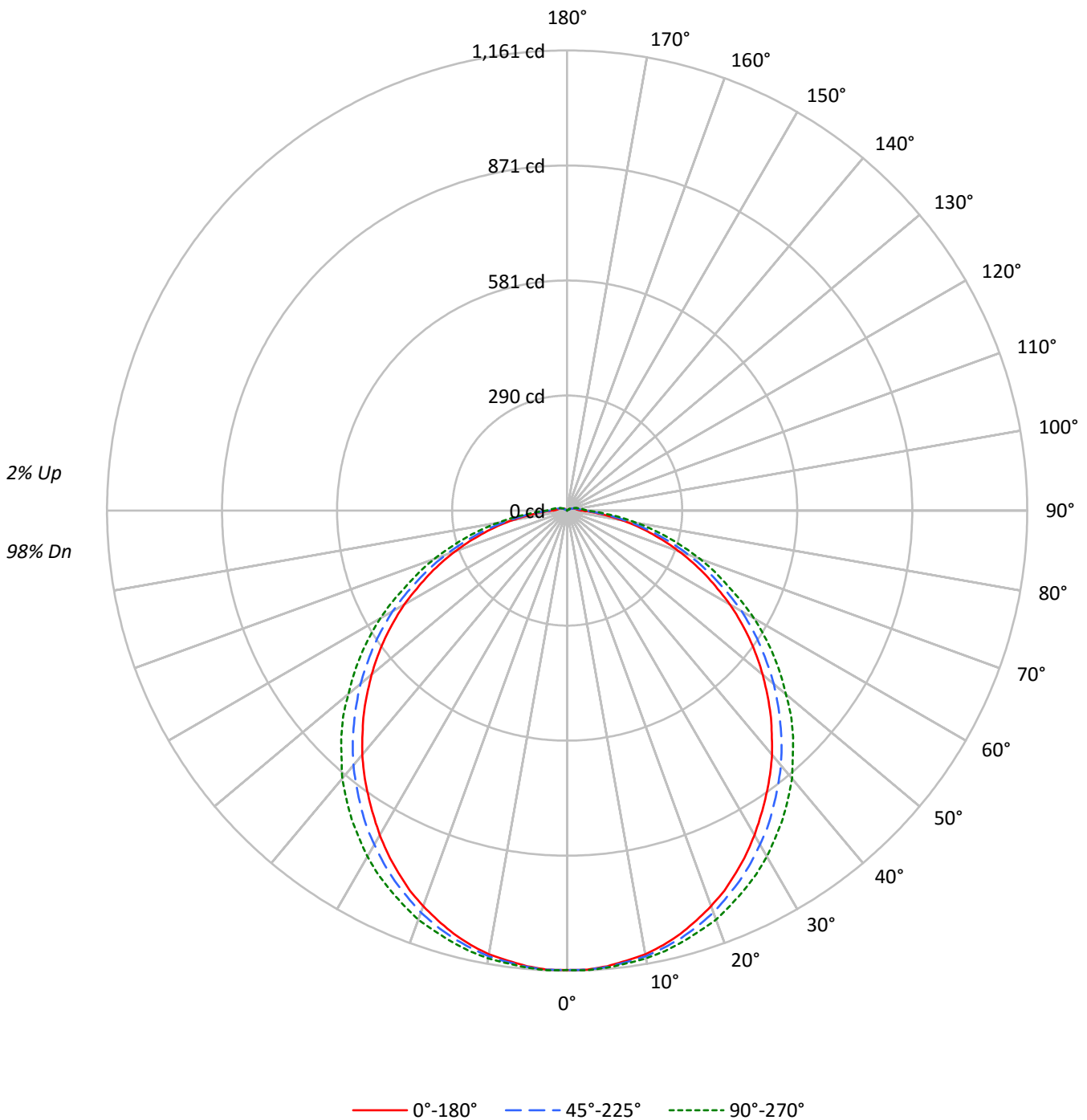
Lumens per Lamp: N/A  
Luminaire Lumens: 3433.4 lumens  
Efficiency: N/A  
Efficacy: 112.9 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.37  
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.08')  
CIE Type: Direct

Input Watts (W): 30.4  
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°	1560	1560	1560
5°	1556	1555	1558
10°	1547	1548	1556
15°	1531	1536	1551
20°	1509	1521	1549
25°	1482	1499	1539
30°	1451	1474	1529
35°	1417	1448	1514
40°	1388	1421	1498
45°	1353	1386	1472
50°	1315	1353	1437
55°	1277	1314	1407
60°	1234	1271	1367
65°	1178	1205	1302
70°	1114	1142	1260
75°	1041	1056	1190
80°	965	960	1113
85°	933	892	1056



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	109.8	3.2
10°-20°	314.7	9.2
20°-30°	475.2	13.8
30°-40°	569.3	16.6
40°-50°	588.6	17.1
50°-60°	533.0	15.5
60°-70°	412.5	12.0
70°-80°	253.4	7.4
80°-90°	100.7	2.9
90°-100°	36.7	1.1
100°-110°	22.6	0.7
110°-120°	11.6	0.3
120°-130°	5.0	0.1
130°-140°	0.3	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°	899.7	26.2
0°-40°	1469.0	42.8
0°-60°	2590.7	75.5
0°-90°	3357.2	97.8
90°-120°	70.9	2.1
90°-150°	76.2	2.2
90°-180°	76.0	2.2
0°-180°	3433.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1159	1159	1159	1159	1159	
5°	1154	1154	1156	1156	1158	110
15°	1105	1107	1116	1123	1126	312
25°	1008	1015	1030	1048	1057	464
35°	876	886	909	933	949	548
45°	726	735	761	792	806	559
55°	560	573	595	621	635	501
65°	386	395	414	435	446	382
75°	216	226	237	252	265	230
85°	75	80	87	96	101	75
90°	35	40	44	49	52	21
95°	26	30	33	37	40	21
105°	19	19	21	23	24	20
115°	12	10	10	12	14	12
125°	7	5	4	5	7	6
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°	1159.3	1159.3	1159.3	1159.3	1159.3
2.5°	1159.3	1157.5	1159.3	1159.3	1161.0
5°	1154.1	1154.1	1155.8	1155.8	1157.5
7.5°	1145.3	1145.3	1148.8	1150.6	1152.3
10°	1136.6	1136.6	1141.9	1143.6	1147.1
12.5°	1122.7	1124.5	1129.7	1134.9	1138.4
15°	1105.3	1107.1	1115.8	1122.7	1126.2
17.5°	1084.4	1087.9	1098.4	1108.8	1112.3
20°	1061.8	1067.0	1079.2	1091.4	1098.4
22.5°	1037.4	1040.9	1054.8	1070.5	1077.5
25°	1007.8	1014.8	1030.5	1047.9	1056.6
27.5°	978.2	985.2	1002.6	1023.5	1033.9
30°	945.2	952.1	973.0	995.7	1007.8
32.5°	910.4	919.1	943.4	966.1	978.2
35°	875.5	886.0	908.6	933.0	948.7
37.5°	840.7	849.4	873.8	899.9	915.6
40°	804.2	812.9	839.0	865.1	882.5
42.5°	764.1	774.6	800.7	828.6	842.5
45°	725.9	734.6	760.7	792.0	805.9
47.5°	684.1	696.3	720.6	750.2	765.9
50°	644.0	654.5	680.6	708.4	720.6
52.5°	602.3	612.7	637.1	664.9	678.9
55°	560.5	572.7	595.3	621.4	635.3
57.5°	517.0	529.2	551.8	574.4	590.1
60°	475.2	487.4	508.3	530.9	544.8
62.5°	428.2	438.6	461.3	485.6	496.1
65°	386.4	395.1	414.3	435.2	445.6
67.5°	342.9	353.4	370.8	389.9	402.1
70°	299.4	311.6	325.5	342.9	356.8
72.5°	257.6	268.1	280.2	297.7	309.8
75°	215.8	226.3	236.7	252.4	264.6
77.5°	179.3	184.5	195.0	208.9	221.1
80°	139.3	146.2	154.9	168.8	177.5
82.5°	104.4	111.4	118.4	128.8	137.5
85°	74.8	80.1	87.0	95.7	101.0
87.5°	50.5	55.7	60.9	67.9	73.1
90°	34.8	40.0	43.5	48.7	52.2
92.5°	29.6	33.1	36.6	40.0	43.5
95°	26.1	29.6	33.1	36.6	40.0
97.5°	24.4	26.1	29.6	33.1	34.8
100°	22.6	24.4	26.1	29.6	31.3
102.5°	20.9	20.9	24.4	26.1	27.9
105°	19.1	19.1	20.9	22.6	24.4
107.5°	17.4	17.4	19.1	19.1	22.6
110°	15.7	13.9	15.7	15.7	19.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	13.9	12.2	13.9	13.9	15.7
115°	12.2	10.4	10.4	12.2	13.9
117.5°	10.4	8.7	8.7	8.7	12.2
120°	10.4	8.7	7.0	7.0	10.4
122.5°	8.7	7.0	5.2	7.0	8.7
125°	7.0	5.2	3.5	5.2	7.0
127.5°	5.2	5.2	1.7	3.5	5.2
130°	5.2	3.5	1.7	3.5	3.5
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)