

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: P384343

Luminaire Tested: **24ID-35-L835-CFD2**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P384343  
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: 24ID-35-L835-CFD2  
Description: 2X4 IN DEPTH TROFFER WITH 2INCH DROP CUBE LENS

Light Source: -  
Ballast/Driver: -

**Summary**

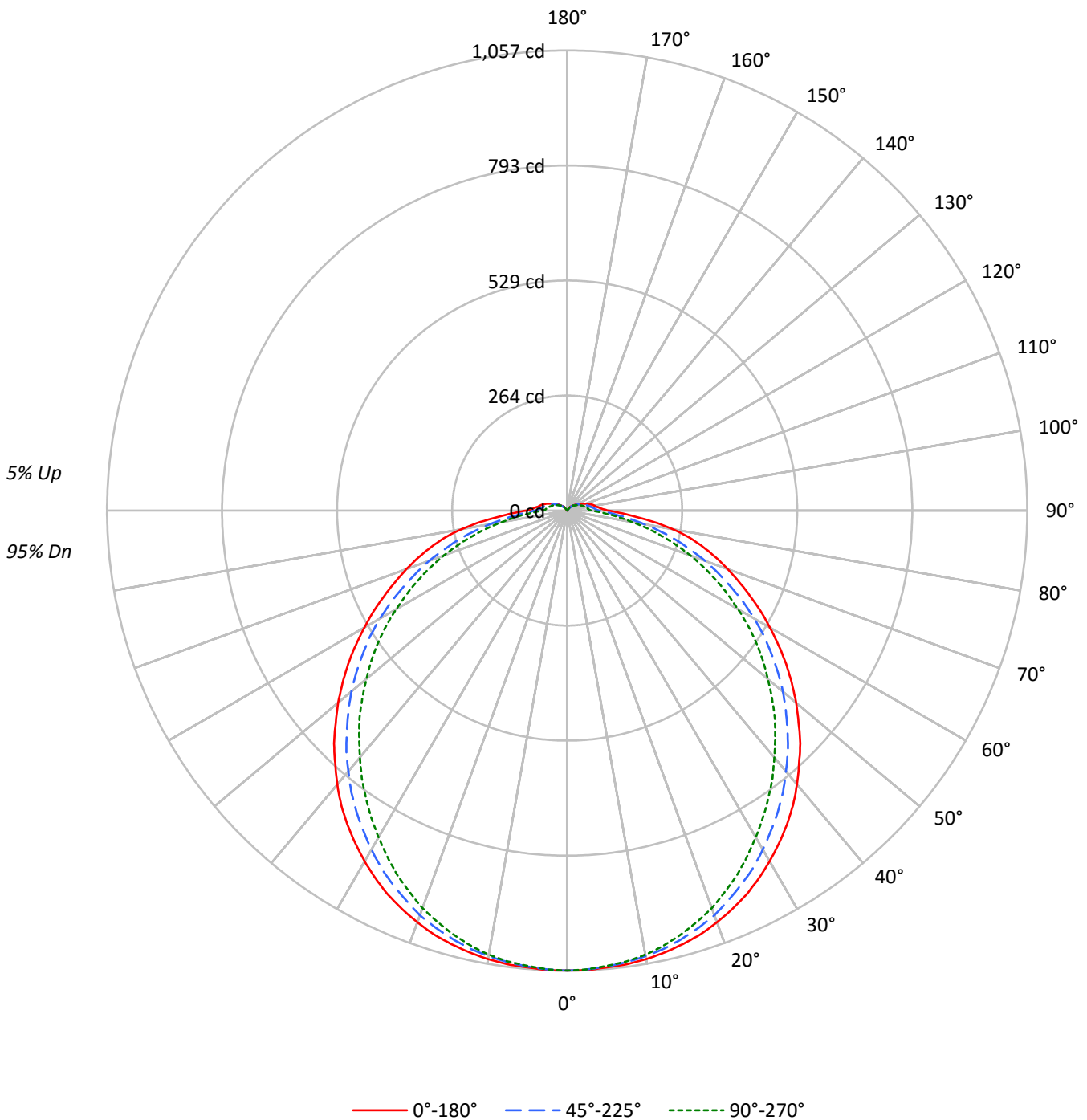
Lumens per Lamp: N/A  
Luminaire Lumens: 3426.9 lumens  
Efficiency: N/A  
Efficacy: 112.7 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 1.22 / 1.38  
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.17')  
CIE Type: Direct

Input Watts (W): 30.4  
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



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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°	1422	1422	1422
5°	1417	1409	1407
10°	1419	1398	1395
15°	1420	1386	1374
20°	1419	1372	1350
25°	1418	1351	1320
30°	1411	1329	1284
35°	1405	1305	1251
40°	1394	1278	1215
45°	1384	1252	1185
50°	1369	1225	1146
55°	1359	1192	1113
60°	1350	1158	1065
65°	1354	1111	1018
70°	1385	1067	963
75°	1455	1007	891
80°	1550	928	801
85°	1627	876	738



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	100.0	2.9
10°-20°	287.5	8.4
20°-30°	436.8	12.7
30°-40°	527.5	15.4
40°-50°	552.2	16.1
50°-60°	512.3	15.0
60°-70°	415.0	12.1
70°-80°	280.1	8.2
80°-90°	135.3	3.9
90°-100°	68.1	2.0
100°-110°	49.5	1.4
110°-120°	33.1	1.0
120°-130°	19.2	0.6
130°-140°	9.7	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°	824.3	24.1
0°-40°	1351.8	39.4
0°-60°	2416.3	70.5
0°-90°	3246.7	94.7
90°-120°	150.6	4.4
90°-150°	180.2	5.3
90°-180°	180.0	5.3
0°-180°	3426.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1057	1057	1057	1057	1057	
5°	1053	1051	1051	1050	1050	100
15°	1031	1026	1018	1012	1008	291
25°	974	965	948	930	923	449
35°	880	868	844	818	806	551
45°	757	744	716	686	674	583
55°	614	600	572	545	531	549
65°	463	446	415	392	377	460
75°	323	290	258	239	225	341
85°	156	135	114	104	93	147
90°	93	85	73	66	55	53
95°	74	69	62	55	48	58
105°	55	52	47	42	38	59
115°	38	35	35	29	29	38
125°	24	21	22	19	21	21
135°	14	12	12	12	14	11
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°	1056.6	1056.6	1056.6	1056.6	1056.6
2.5°	1056.6	1054.8	1054.8	1054.8	1054.8
5°	1053.1	1051.4	1051.4	1049.7	1049.7
7.5°	1051.4	1047.9	1046.2	1044.5	1044.5
10°	1046.2	1042.7	1039.3	1035.8	1035.8
12.5°	1039.3	1035.8	1030.6	1023.7	1023.7
15°	1030.6	1025.5	1018.5	1011.6	1008.2
17.5°	1020.3	1015.1	1004.7	994.3	990.9
20°	1006.4	999.5	989.1	975.3	971.8
22.5°	990.9	983.9	968.4	954.6	947.6
25°	973.6	964.9	947.6	930.3	923.4
27.5°	952.8	944.2	925.2	904.4	895.8
30°	930.3	920.0	899.2	876.7	866.4
32.5°	906.1	894.0	871.5	847.3	837.0
35°	880.2	868.1	843.9	817.9	805.8
37.5°	852.5	840.4	814.5	786.8	774.7
40°	821.4	809.3	781.6	754.0	740.1
42.5°	788.5	778.2	750.5	721.1	707.3
45°	757.4	743.6	715.9	686.5	674.4
47.5°	721.1	710.7	681.3	651.9	638.1
50°	686.5	674.4	646.7	617.3	601.8
52.5°	650.2	639.8	610.4	581.0	567.2
55°	613.9	600.1	572.4	544.7	530.9
57.5°	575.8	563.7	536.1	510.1	492.8
60°	537.8	525.7	496.3	472.1	453.1
62.5°	501.5	487.7	456.5	430.6	415.0
65°	463.4	446.1	415.0	392.5	377.0
67.5°	427.1	406.4	375.2	354.5	338.9
70°	392.5	368.3	337.2	316.5	300.9
72.5°	358.0	328.6	295.7	276.7	262.8
75°	323.4	290.5	257.7	238.6	224.8
77.5°	288.8	250.7	217.9	202.3	188.5
80°	247.3	211.0	179.8	166.0	152.2
82.5°	200.6	171.2	145.3	131.4	121.0
85°	155.6	134.9	114.1	103.8	93.4
87.5°	121.0	105.5	89.9	81.3	72.6
90°	93.4	84.7	72.6	65.7	55.3
92.5°	81.3	74.4	65.7	58.8	50.1
95°	74.4	69.2	62.3	55.3	48.4
97.5°	67.4	64.0	57.1	51.9	45.0
100°	64.0	58.8	53.6	48.4	43.2
102.5°	60.5	55.3	50.1	45.0	41.5
105°	55.3	51.9	46.7	41.5	38.0
107.5°	51.9	46.7	43.2	38.0	36.3
110°	46.7	43.2	39.8	36.3	34.6



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	41.5	39.8	36.3	32.9	31.1
115°	38.0	34.6	34.6	29.4	29.4
117.5°	34.6	31.1	31.1	27.7	27.7
120°	29.4	27.7	27.7	24.2	24.2
122.5°	25.9	24.2	24.2	22.5	22.5
125°	24.2	20.8	22.5	19.0	20.8
127.5°	20.8	19.0	19.0	17.3	19.0
130°	17.3	15.6	15.6	15.6	17.3
132.5°	15.6	13.8	13.8	13.8	15.6
135°	13.8	12.1	12.1	12.1	13.8
137.5°	12.1	10.4	8.6	10.4	12.1
140°	10.4	8.6	6.9	8.6	10.4
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)