

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: P384344

Luminaire Tested: **24ID-35-L840-CFD2**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P384344  
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-L840-CFD2  
Description: 2X4 IN DEPTH TROFFER WITH 2INCH DROP CUBE LENS

Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3512.5 lumens  
Efficiency: N/A  
Efficacy: 116.3 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

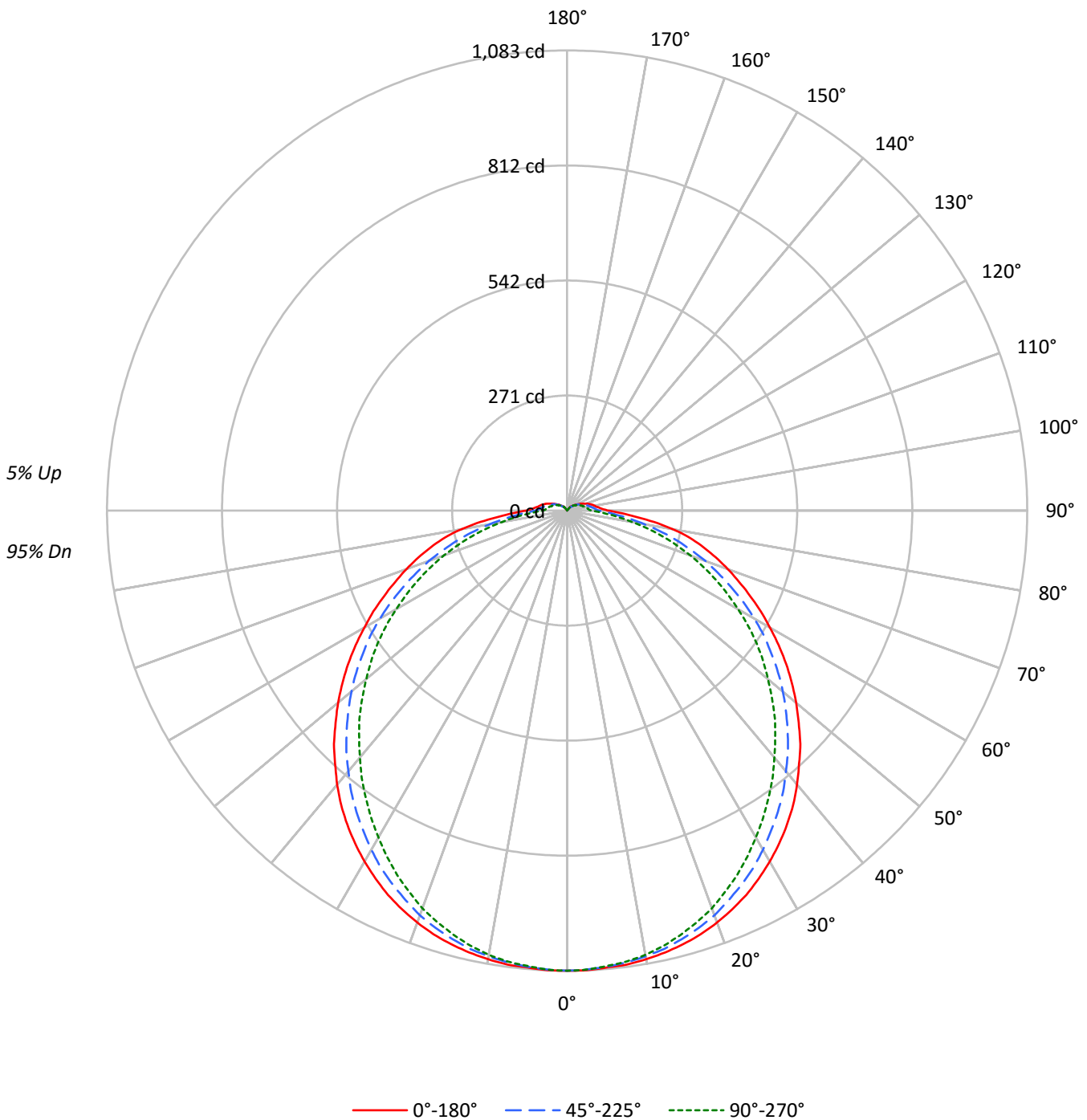
Input Watts (W): 30.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1457	1457	1457
5°	1453	1444	1443
10°	1454	1433	1430
15°	1455	1421	1408
20°	1455	1406	1384
25°	1453	1385	1353
30°	1447	1362	1316
35°	1440	1338	1282
40°	1429	1310	1245
45°	1418	1283	1214
50°	1403	1255	1174
55°	1393	1222	1141
60°	1383	1187	1092
65°	1388	1139	1044
70°	1420	1094	987
75°	1491	1032	914
80°	1589	951	821
85°	1668	898	757



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	102.5	2.9
10°-20°	294.7	8.4
20°-30°	447.7	12.7
30°-40°	540.7	15.4
40°-50°	565.9	16.1
50°-60°	525.1	15.0
60°-70°	425.4	12.1
70°-80°	287.0	8.2
80°-90°	138.7	3.9
90°-100°	69.8	2.0
100°-110°	50.7	1.4
110°-120°	33.9	1.0
120°-130°	19.6	0.6
130°-140°	9.9	0.3
140°-150°	0.8	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	844.9	24.1
0°-40°	1385.6	39.4
0°-60°	2476.7	70.5
0°-90°	3327.8	94.7
90°-120°	154.4	4.4
90°-150°	184.7	5.3
90°-180°	185.0	5.3
0°-180°	3512.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1083	1083	1083	1083	1083	
5°	1079	1078	1078	1076	1076	103
15°	1056	1051	1044	1037	1033	298
25°	998	989	971	954	946	460
35°	902	890	865	838	826	564
45°	776	762	734	704	691	598
55°	629	615	587	558	544	562
65°	475	457	425	402	386	471
75°	331	298	264	245	230	349
85°	160	138	117	106	96	151
90°	96	87	74	67	57	55
95°	76	71	64	57	50	60
105°	57	53	48	42	39	61
115°	39	35	35	30	30	39
125°	25	21	23	20	21	22
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°	1083.0	1083.0	1083.0	1083.0	1083.0
2.5°	1083.0	1081.2	1081.2	1081.2	1081.2
5°	1079.4	1077.7	1077.7	1075.9	1075.9
7.5°	1077.7	1074.1	1072.3	1070.6	1070.6
10°	1072.3	1068.8	1065.2	1061.7	1061.7
12.5°	1065.2	1061.7	1056.4	1049.3	1049.3
15°	1056.4	1051.1	1044.0	1036.9	1033.3
17.5°	1045.7	1040.4	1029.8	1019.2	1015.6
20°	1031.6	1024.5	1013.8	999.7	996.1
22.5°	1015.6	1008.5	992.6	978.4	971.3
25°	997.9	989.0	971.3	953.6	946.5
27.5°	976.6	967.8	948.3	927.0	918.1
30°	953.6	942.9	921.7	898.6	888.0
32.5°	928.8	916.4	893.3	868.5	857.9
35°	902.2	889.8	865.0	838.4	826.0
37.5°	873.8	861.4	834.8	806.5	794.1
40°	841.9	829.5	801.1	772.8	758.6
42.5°	808.2	797.6	769.2	739.1	724.9
45°	776.3	762.2	733.8	703.7	691.3
47.5°	739.1	728.5	698.3	668.2	654.0
50°	703.7	691.3	662.9	632.8	616.8
52.5°	666.4	655.8	625.7	595.5	581.4
55°	629.2	615.0	586.7	558.3	544.1
57.5°	590.2	577.8	549.5	522.9	505.1
60°	551.2	538.8	508.7	483.9	464.4
62.5°	514.0	499.8	467.9	441.3	425.4
65°	475.0	457.3	425.4	402.3	386.4
67.5°	437.8	416.5	384.6	363.4	347.4
70°	402.3	377.5	345.6	324.4	308.4
72.5°	366.9	336.8	303.1	283.6	269.4
75°	331.4	297.8	264.1	244.6	230.4
77.5°	296.0	257.0	223.3	207.4	193.2
80°	253.5	216.2	184.3	170.2	156.0
82.5°	205.6	175.5	148.9	134.7	124.1
85°	159.5	138.3	117.0	106.3	95.7
87.5°	124.1	108.1	92.2	83.3	74.4
90°	95.7	86.9	74.4	67.4	56.7
92.5°	83.3	76.2	67.4	60.3	51.4
95°	76.2	70.9	63.8	56.7	49.6
97.5°	69.1	65.6	58.5	53.2	46.1
100°	65.6	60.3	54.9	49.6	44.3
102.5°	62.0	56.7	51.4	46.1	42.5
105°	56.7	53.2	47.9	42.5	39.0
107.5°	53.2	47.9	44.3	39.0	37.2
110°	47.9	44.3	40.8	37.2	35.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	42.5	40.8	37.2	33.7	31.9
115°	39.0	35.4	35.4	30.1	30.1
117.5°	35.4	31.9	31.9	28.4	28.4
120°	30.1	28.4	28.4	24.8	24.8
122.5°	26.6	24.8	24.8	23.0	23.0
125°	24.8	21.3	23.0	19.5	21.3
127.5°	21.3	19.5	19.5	17.7	19.5
130°	17.7	16.0	16.0	16.0	17.7
132.5°	16.0	14.2	14.2	14.2	16.0
135°	14.2	12.4	12.4	12.4	14.2
137.5°	12.4	10.6	8.9	10.6	12.4
140°	10.6	8.9	7.1	8.9	10.6
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)