

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: P384180

Luminaire Tested: **24ID-40-L840-CFD1**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P384180  
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-40-L840-CFD1  
Description: 2X4 IN DEPTH TROFFER WITH 1INCH DROP CUBE LENS

Light Source: -  
Ballast/Driver: -

**Summary**

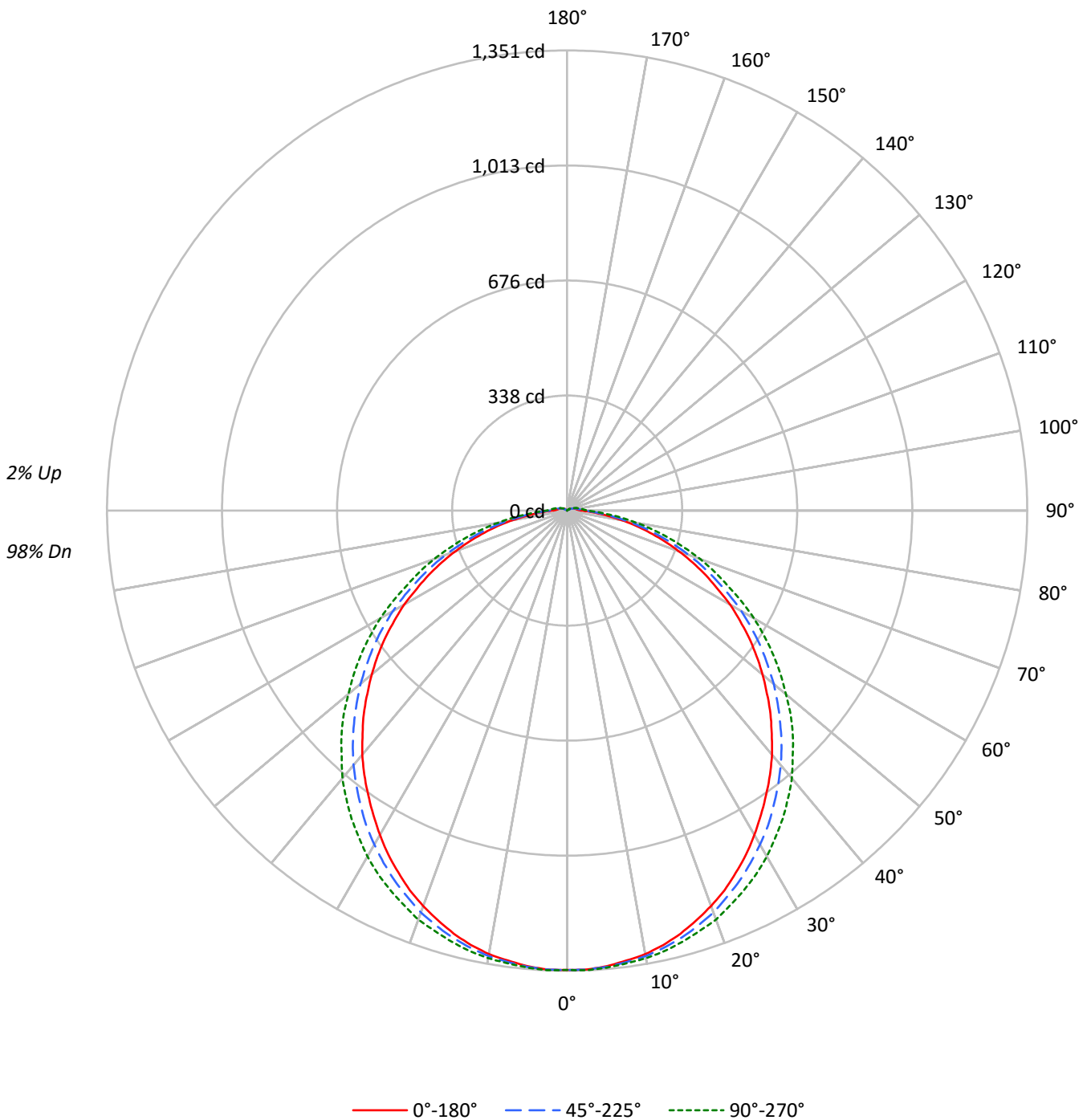
Lumens per Lamp: N/A  
Luminaire Lumens: 3994.4 lumens  
Efficiency: N/A  
Efficacy: 113.5 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.37  
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.08')  
CIE Type: Direct

Input Watts (W): 35.2  
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	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°	1815	1815	1815
5°	1810	1809	1812
10°	1800	1801	1810
15°	1781	1787	1805
20°	1755	1769	1802
25°	1724	1744	1790
30°	1688	1715	1779
35°	1649	1684	1761
40°	1615	1653	1742
45°	1574	1613	1713
50°	1530	1575	1672
55°	1486	1528	1636
60°	1436	1478	1591
65°	1370	1402	1515
70°	1296	1329	1465
75°	1211	1229	1385
80°	1123	1117	1295
85°	1086	1039	1229



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	127.7	3.2
10°-20°	366.2	9.2
20°-30°	552.8	13.8
30°-40°	662.4	16.6
40°-50°	684.8	17.1
50°-60°	620.1	15.5
60°-70°	479.9	12.0
70°-80°	294.8	7.4
80°-90°	117.1	2.9
90°-100°	42.7	1.1
100°-110°	26.3	0.7
110°-120°	13.5	0.3
120°-130°	5.8	0.1
130°-140°	0.4	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°	1046.7	26.2
0°-40°	1709.0	42.8
0°-60°	3014.0	75.5
0°-90°	3905.8	97.8
90°-120°	82.5	2.1
90°-150°	88.7	2.2
90°-180°	89.0	2.2
0°-180°	3994.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1349	1349	1349	1349	1349	
5°	1343	1343	1345	1345	1347	127
15°	1286	1288	1298	1306	1310	362
25°	1172	1181	1199	1219	1229	540
35°	1019	1031	1057	1085	1104	638
45°	844	855	885	921	938	651
55°	652	666	693	723	739	583
65°	450	460	482	506	518	445
75°	251	263	275	294	308	268
85°	87	93	101	111	118	87
90°	40	47	51	57	61	24
95°	30	34	38	42	47	24
105°	22	22	24	26	28	24
115°	14	12	12	14	16	14
125°	8	6	4	6	8	8
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°	1348.7	1348.7	1348.7	1348.7	1348.7
2.5°	1348.7	1346.7	1348.7	1348.7	1350.7
5°	1342.6	1342.6	1344.6	1344.6	1346.7
7.5°	1332.5	1332.5	1336.5	1338.6	1340.6
10°	1322.4	1322.4	1328.4	1330.5	1334.5
12.5°	1306.2	1308.2	1314.3	1320.3	1324.4
15°	1285.9	1287.9	1298.1	1306.2	1310.2
17.5°	1261.6	1265.7	1277.8	1290.0	1294.0
20°	1235.3	1241.4	1255.5	1269.7	1277.8
22.5°	1206.9	1211.0	1227.2	1245.4	1253.5
25°	1172.5	1180.6	1198.8	1219.1	1229.2
27.5°	1138.1	1146.2	1166.4	1190.7	1202.9
30°	1099.6	1107.7	1132.0	1158.3	1172.5
32.5°	1059.1	1069.2	1097.6	1123.9	1138.1
35°	1018.6	1030.8	1057.1	1085.4	1103.7
37.5°	978.1	988.2	1016.6	1047.0	1065.2
40°	935.6	945.7	976.1	1006.5	1026.7
42.5°	889.0	901.2	931.5	963.9	980.1
45°	844.5	854.6	885.0	921.4	937.6
47.5°	795.9	810.0	838.4	872.8	891.0
50°	749.3	761.4	791.8	824.2	838.4
52.5°	700.7	712.8	741.2	773.6	789.8
55°	652.1	666.2	692.6	722.9	739.1
57.5°	601.4	615.6	641.9	668.3	686.5
60°	552.8	567.0	591.3	617.6	633.8
62.5°	498.2	510.3	536.6	565.0	577.1
65°	449.6	459.7	482.0	506.3	518.4
67.5°	398.9	411.1	431.3	453.6	467.8
70°	348.3	362.5	378.7	398.9	415.1
72.5°	299.7	311.9	326.0	346.3	360.5
75°	251.1	263.3	275.4	293.6	307.8
77.5°	208.6	214.7	226.8	243.0	257.2
80°	162.0	170.1	180.2	196.4	206.6
82.5°	121.5	129.6	137.7	149.9	160.0
85°	87.1	93.2	101.3	111.4	117.5
87.5°	58.7	64.8	70.9	79.0	85.1
90°	40.5	46.6	50.6	56.7	60.8
92.5°	34.4	38.5	42.5	46.6	50.6
95°	30.4	34.4	38.5	42.5	46.6
97.5°	28.4	30.4	34.4	38.5	40.5
100°	26.3	28.4	30.4	34.4	36.5
102.5°	24.3	24.3	28.4	30.4	32.4
105°	22.3	22.3	24.3	26.3	28.4
107.5°	20.3	20.3	22.3	22.3	26.3
110°	18.2	16.2	18.2	18.2	22.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	16.2	14.2	16.2	16.2	18.2
115°	14.2	12.2	12.2	14.2	16.2
117.5°	12.2	10.1	10.1	10.1	14.2
120°	12.2	10.1	8.1	8.1	12.2
122.5°	10.1	8.1	6.1	8.1	10.1
125°	8.1	6.1	4.1	6.1	8.1
127.5°	6.1	6.1	2.0	4.1	6.1
130°	6.1	4.1	2.0	4.1	4.1
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)