

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: P384304

Luminaire Tested: **22ID-50-L840-CFD2**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P384304  
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: 22ID-50-L840-CFD2  
Description: 2X2 IN DEPTH TROFFER WITH 2INCH DROP CUBE LENS

Light Source: -  
Ballast/Driver: -

**Summary**

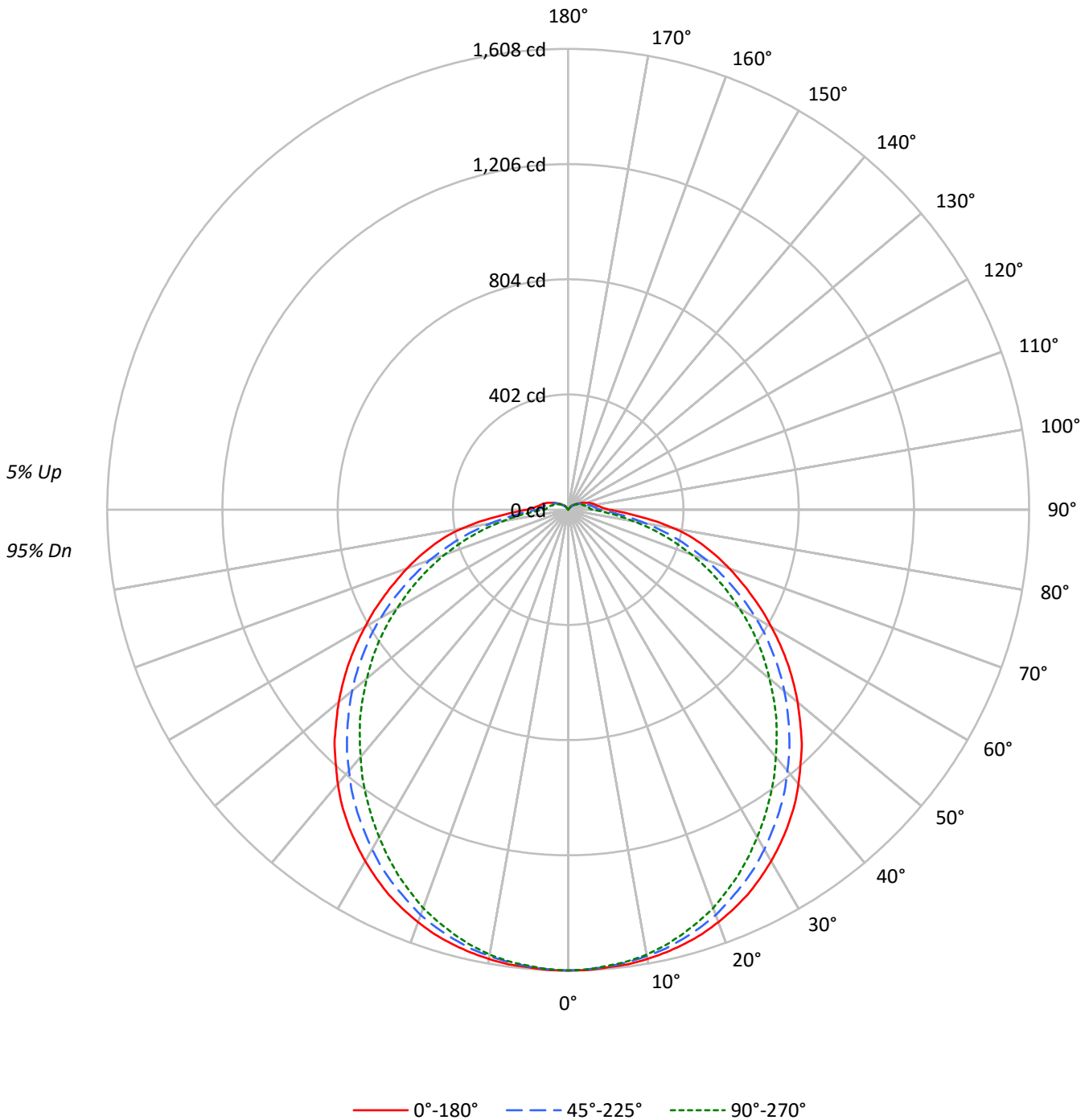
Lumens per Lamp: N/A  
Luminaire Lumens: 5215.2 lumens  
Efficiency: N/A  
Efficacy: 125.7 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 1.22 / 1.38  
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.17')  
CIE Type: Direct

Input Watts (W): 41.5  
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°	4327	4327	4327
5°	4298	4278	4284
10°	4288	4234	4245
15°	4274	4186	4181
20°	4257	4133	4111
25°	4235	4059	4016
30°	4197	3981	3909
35°	4158	3897	3807
40°	4104	3802	3698
45°	4049	3709	3605
50°	3979	3613	3488
55°	3917	3498	3387
60°	3849	3376	3243
65°	3810	3210	3099
70°	3825	3050	2932
75°	3903	2831	2713
80°	3960	2542	2437
85°	3745	2285	2247



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	152.2	2.9
10°-20°	437.6	8.4
20°-30°	664.7	12.7
30°-40°	802.9	15.4
40°-50°	840.3	16.1
50°-60°	779.7	15.0
60°-70°	631.6	12.1
70°-80°	426.2	8.2
80°-90°	205.9	3.9
90°-100°	103.6	2.0
100°-110°	75.3	1.4
110°-120°	50.3	1.0
120°-130°	29.2	0.6
130°-140°	14.7	0.3
140°-150°	1.1	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1254.5	24.1
0°-40°	2057.3	39.4
0°-60°	3677.3	70.5
0°-90°	4941.0	94.7
90°-120°	229.2	4.4
90°-150°	274.2	5.3
90°-180°	274.0	5.3
0°-180°	5215.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1608	1608	1608	1608	1608	
5°	1603	1600	1600	1597	1597	153
15°	1568	1561	1550	1540	1534	443
25°	1482	1468	1442	1416	1405	683
35°	1340	1321	1284	1245	1226	838
45°	1153	1132	1090	1045	1026	888
55°	934	913	871	829	808	835
65°	705	679	632	597	574	700
75°	492	442	392	363	342	518
85°	237	205	174	158	142	224
90°	142	129	110	100	84	81
95°	113	105	95	84	74	89
105°	84	79	71	63	58	90
115°	58	53	53	45	45	58
125°	37	32	34	29	32	32
135°	21	18	18	18	21	16
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°	1607.9	1607.9	1607.9	1607.9	1607.9
2.5°	1607.9	1605.3	1605.3	1605.3	1605.3
5°	1602.7	1600.0	1600.0	1597.4	1597.4
7.5°	1600.0	1594.8	1592.2	1589.5	1589.5
10°	1592.2	1586.9	1581.6	1576.4	1576.4
12.5°	1581.6	1576.4	1568.5	1557.9	1557.9
15°	1568.5	1560.6	1550.0	1539.5	1534.3
17.5°	1552.7	1544.8	1529.0	1513.2	1507.9
20°	1531.6	1521.1	1505.3	1484.3	1479.0
22.5°	1507.9	1497.4	1473.7	1452.7	1442.1
25°	1481.6	1468.5	1442.1	1415.8	1405.3
27.5°	1450.0	1436.9	1407.9	1376.4	1363.2
30°	1415.8	1400.0	1368.5	1334.3	1318.5
32.5°	1379.0	1360.6	1326.4	1289.5	1273.7
35°	1339.5	1321.1	1284.3	1244.8	1226.4
37.5°	1297.4	1279.0	1239.5	1197.4	1179.0
40°	1250.0	1231.6	1189.5	1147.4	1126.4
42.5°	1200.0	1184.2	1142.1	1097.4	1076.3
45°	1152.7	1131.6	1089.5	1044.8	1026.3
47.5°	1097.4	1081.6	1036.9	992.1	971.1
50°	1044.8	1026.3	984.2	939.5	915.8
52.5°	989.5	973.7	929.0	884.2	863.2
55°	934.2	913.2	871.1	829.0	807.9
57.5°	876.3	857.9	815.8	776.3	750.0
60°	818.4	800.0	755.3	718.4	689.5
62.5°	763.2	742.1	694.8	655.3	631.6
65°	705.3	679.0	631.6	597.4	573.7
67.5°	650.0	618.4	571.1	539.5	515.8
70°	597.4	560.5	513.2	481.6	457.9
72.5°	544.8	500.0	450.0	421.1	400.0
75°	492.1	442.1	392.1	363.2	342.1
77.5°	439.5	381.6	331.6	307.9	286.9
80°	376.3	321.1	273.7	252.6	231.6
82.5°	305.3	260.5	221.1	200.0	184.2
85°	236.8	205.3	173.7	157.9	142.1
87.5°	184.2	160.5	136.8	123.7	110.5
90°	142.1	129.0	110.5	100.0	84.2
92.5°	123.7	113.2	100.0	89.5	76.3
95°	113.2	105.3	94.7	84.2	73.7
97.5°	102.6	97.4	86.8	78.9	68.4
100°	97.4	89.5	81.6	73.7	65.8
102.5°	92.1	84.2	76.3	68.4	63.2
105°	84.2	78.9	71.1	63.2	57.9
107.5°	78.9	71.1	65.8	57.9	55.3
110°	71.1	65.8	60.5	55.3	52.6



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	63.2	60.5	55.3	50.0	47.4
115°	57.9	52.6	52.6	44.7	44.7
117.5°	52.6	47.4	47.4	42.1	42.1
120°	44.7	42.1	42.1	36.8	36.8
122.5°	39.5	36.8	36.8	34.2	34.2
125°	36.8	31.6	34.2	28.9	31.6
127.5°	31.6	28.9	28.9	26.3	28.9
130°	26.3	23.7	23.7	23.7	26.3
132.5°	23.7	21.1	21.1	21.1	23.7
135°	21.1	18.4	18.4	18.4	21.1
137.5°	18.4	15.8	13.2	15.8	18.4
140°	15.8	13.2	10.5	13.2	15.8
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)