

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: P384124

Luminaire Tested: **22ID-35-L840-CFD1**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P384124  
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: 22ID-35-L840-CFD1  
Description: 2X2 IN DEPTH TROFFER WITH 1INCH DROP CUBE LENS

Light Source: -  
Ballast/Driver: -

**Summary**

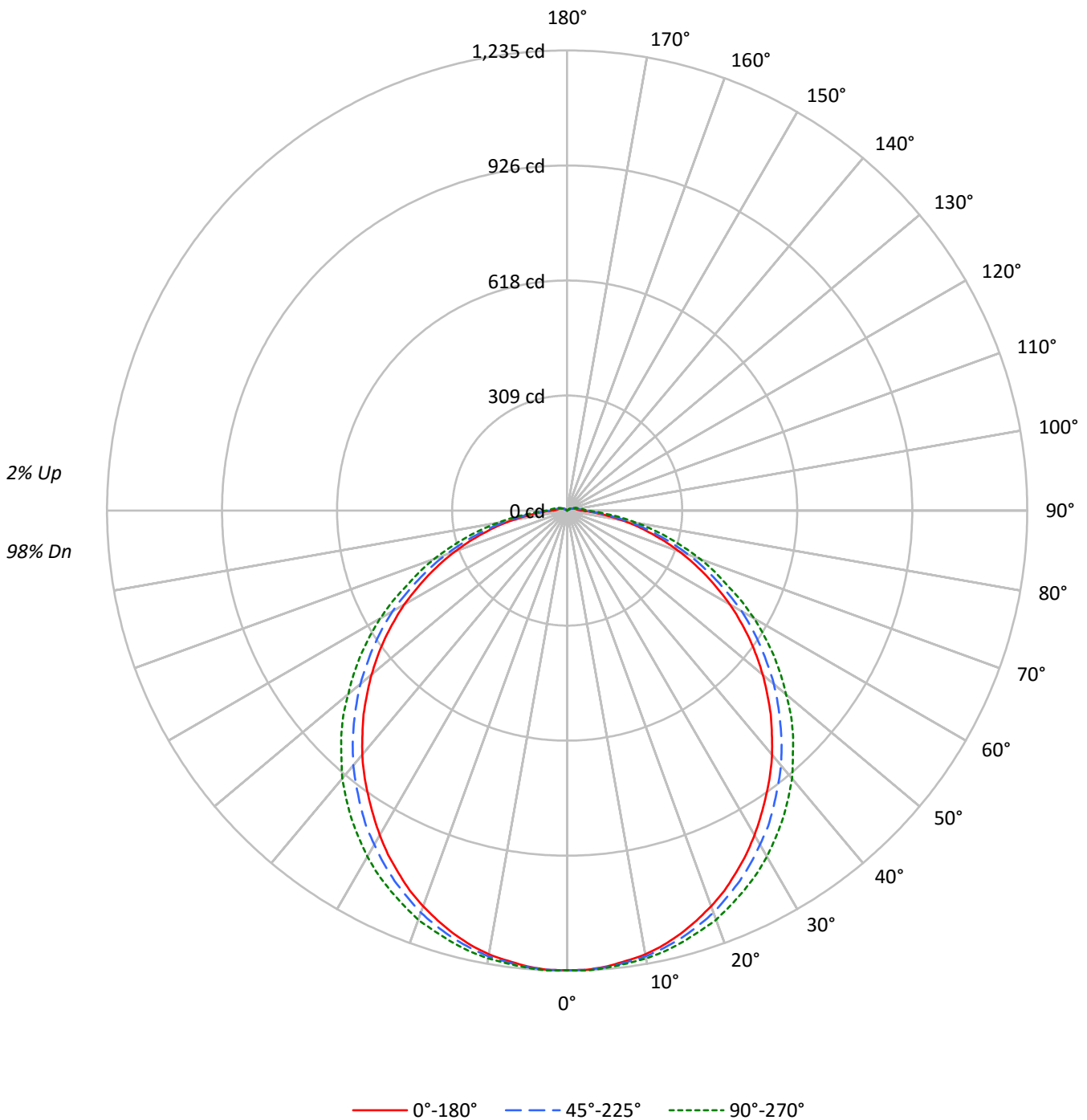
Lumens per Lamp: N/A  
Luminaire Lumens: 3653.4 lumens  
Efficiency: N/A  
Efficacy: 128.6 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.37  
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.08')  
CIE Type: Direct

Input Watts (W): 28.4  
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°	3320	3320	3320
5°	3305	3305	3315
10°	3281	3286	3311
15°	3240	3256	3302
20°	3187	3220	3297
25°	3123	3169	3275
30°	3052	3111	3254
35°	2974	3050	3222
40°	2904	2989	3187
45°	2822	2909	3133
50°	2733	2833	3058
55°	2641	2741	2993
60°	2538	2641	2910
65°	2404	2492	2772
70°	2249	2346	2681
75°	2067	2147	2533
80°	1858	1914	2368
85°	1665	1709	2247



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	116.8	3.2
10°-20°	334.9	9.2
20°-30°	505.6	13.8
30°-40°	605.8	16.6
40°-50°	626.3	17.1
50°-60°	567.2	15.5
60°-70°	438.9	12.0
70°-80°	269.6	7.4
80°-90°	107.1	2.9
90°-100°	39.1	1.1
100°-110°	24.0	0.7
110°-120°	12.4	0.3
120°-130°	5.3	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°	957.3	26.2
0°-40°	1563.1	42.8
0°-60°	2756.7	75.5
0°-90°	3572.3	97.8
90°-120°	75.5	2.1
90°-150°	81.1	2.2
90°-180°	81.0	2.2
0°-180°	3653.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1234	1234	1234	1234	1234	
5°	1228	1228	1230	1230	1232	117
15°	1176	1178	1187	1195	1198	332
25°	1072	1080	1096	1115	1124	494
35°	932	943	967	993	1009	583
45°	772	782	809	843	858	595
55°	596	609	633	661	676	533
65°	411	420	441	463	474	407
75°	230	241	252	269	282	245
85°	80	85	93	102	107	79
90°	37	43	46	52	56	22
95°	28	32	35	39	43	22
105°	20	20	22	24	26	22
115°	13	11	11	13	15	13
125°	7	6	4	6	7	7
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°	1233.6	1233.6	1233.6	1233.6	1233.6
2.5°	1233.6	1231.7	1233.6	1233.6	1235.4
5°	1228.0	1228.0	1229.9	1229.9	1231.7
7.5°	1218.7	1218.7	1222.4	1224.3	1226.1
10°	1209.5	1209.5	1215.0	1216.9	1220.6
12.5°	1194.7	1196.5	1202.1	1207.6	1211.3
15°	1176.1	1178.0	1187.3	1194.7	1198.4
17.5°	1153.9	1157.6	1168.7	1179.8	1183.5
20°	1129.8	1135.4	1148.4	1161.3	1168.7
22.5°	1103.9	1107.6	1122.4	1139.1	1146.5
25°	1072.4	1079.8	1096.5	1115.0	1124.3
27.5°	1040.9	1048.3	1066.9	1089.1	1100.2
30°	1005.7	1013.1	1035.4	1059.5	1072.4
32.5°	968.7	978.0	1003.9	1028.0	1040.9
35°	931.6	942.8	966.8	992.8	1009.4
37.5°	894.6	903.9	929.8	957.6	974.2
40°	855.7	865.0	892.8	920.5	939.1
42.5°	813.1	824.2	852.0	881.6	896.5
45°	772.4	781.6	809.4	842.7	857.6
47.5°	727.9	740.9	766.8	798.3	815.0
50°	685.3	696.4	724.2	753.8	766.8
52.5°	640.9	652.0	677.9	707.5	722.4
55°	596.4	609.4	633.4	661.2	676.0
57.5°	550.1	563.1	587.1	611.2	627.9
60°	505.6	518.6	540.8	564.9	579.7
62.5°	455.6	466.8	490.8	516.8	527.9
65°	411.2	420.4	440.8	463.0	474.2
67.5°	364.9	376.0	394.5	414.9	427.9
70°	318.6	331.5	346.4	364.9	379.7
72.5°	274.1	285.2	298.2	316.7	329.7
75°	229.7	240.8	251.9	268.6	281.5
77.5°	190.8	196.3	207.4	222.3	235.2
80°	148.2	155.6	164.8	179.7	188.9
82.5°	111.1	118.5	125.9	137.1	146.3
85°	79.6	85.2	92.6	101.9	107.4
87.5°	53.7	59.3	64.8	72.2	77.8
90°	37.0	42.6	46.3	51.9	55.6
92.5°	31.5	35.2	38.9	42.6	46.3
95°	27.8	31.5	35.2	38.9	42.6
97.5°	25.9	27.8	31.5	35.2	37.0
100°	24.1	25.9	27.8	31.5	33.3
102.5°	22.2	22.2	25.9	27.8	29.6
105°	20.4	20.4	22.2	24.1	25.9
107.5°	18.5	18.5	20.4	20.4	24.1
110°	16.7	14.8	16.7	16.7	20.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	14.8	13.0	14.8	14.8	16.7
115°	13.0	11.1	11.1	13.0	14.8
117.5°	11.1	9.3	9.3	9.3	13.0
120°	11.1	9.3	7.4	7.4	11.1
122.5°	9.3	7.4	5.6	7.4	9.3
125°	7.4	5.6	3.7	5.6	7.4
127.5°	5.6	5.6	1.9	3.7	5.6
130°	5.6	3.7	1.9	3.7	3.7
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)