

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: P384292

Luminaire Tested: **22ID-35-L840-CFD2**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P384292  
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-35-L840-CFD2  
Description: 2X2 IN DEPTH TROFFER WITH 2INCH DROP CUBE LENS

Light Source: -  
Ballast/Driver: -

**Summary**

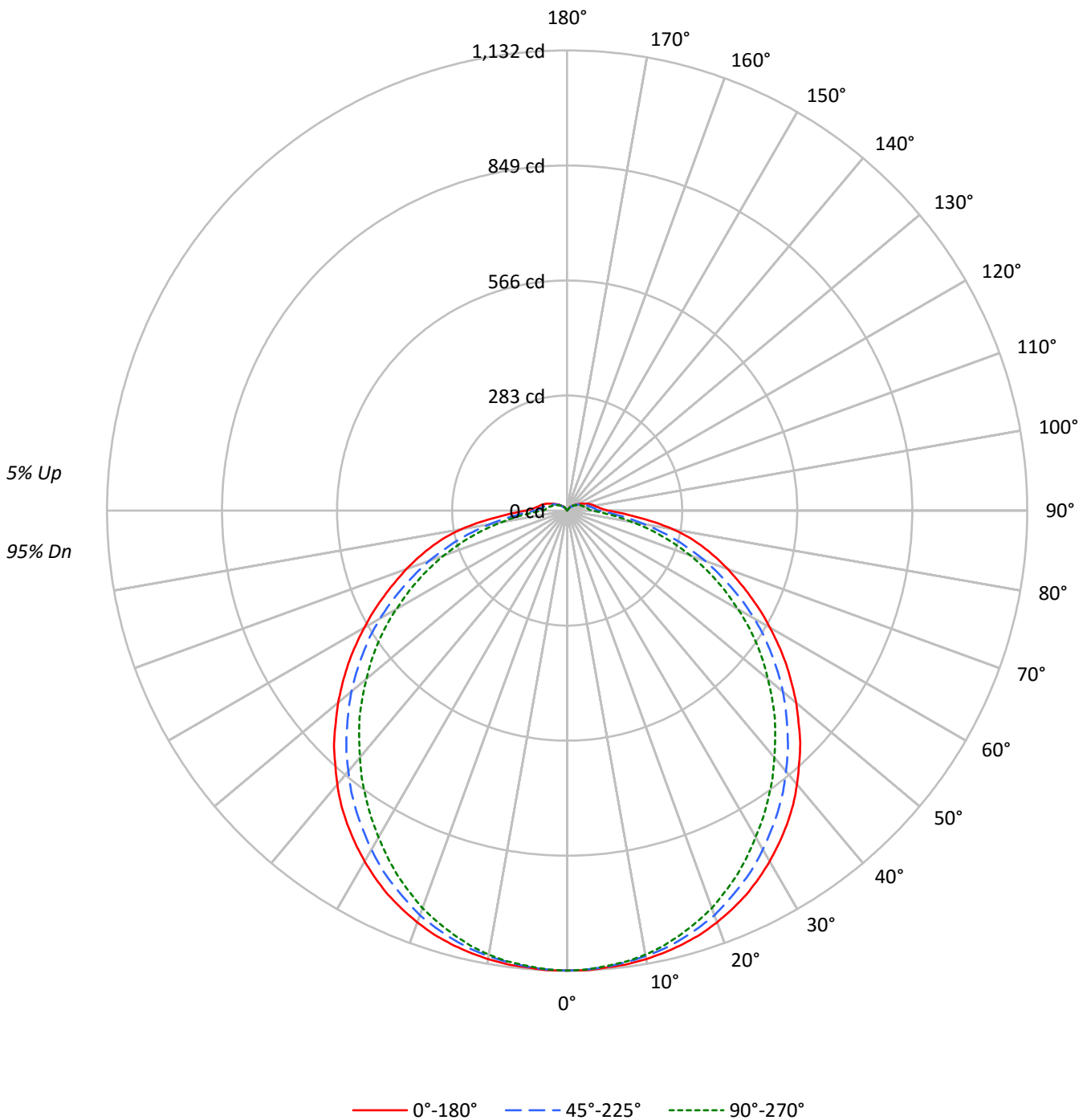
Lumens per Lamp: N/A  
Luminaire Lumens: 3670.1 lumens  
Efficiency: N/A  
Efficacy: 129.2 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 1.22 / 1.38  
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.17')  
CIE Type: Direct

Input Watts (W): 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	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°	3045	3045	3045
5°	3025	3011	3015
10°	3017	2979	2987
15°	3008	2946	2942
20°	2996	2909	2893
25°	2980	2856	2827
30°	2954	2802	2751
35°	2926	2743	2679
40°	2888	2676	2602
45°	2850	2610	2537
50°	2800	2542	2454
55°	2757	2462	2384
60°	2709	2376	2282
65°	2681	2259	2181
70°	2691	2146	2063
75°	2746	1992	1910
80°	2787	1789	1715
85°	2636	1608	1581



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	107.1	2.9
10°-20°	308.0	8.4
20°-30°	467.8	12.7
30°-40°	565.0	15.4
40°-50°	591.4	16.1
50°-60°	548.7	15.0
60°-70°	444.4	12.1
70°-80°	299.9	8.2
80°-90°	144.9	3.9
90°-100°	72.9	2.0
100°-110°	53.0	1.4
110°-120°	35.4	1.0
120°-130°	20.5	0.6
130°-140°	10.4	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°	882.8	24.1
0°-40°	1447.8	39.4
0°-60°	2587.9	70.5
0°-90°	3477.1	94.7
90°-120°	161.3	4.4
90°-150°	193.0	5.3
90°-180°	193.0	5.3
0°-180°	3670.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1132	1132	1132	1132	1132	
5°	1128	1126	1126	1124	1124	107
15°	1104	1098	1091	1083	1080	312
25°	1043	1033	1015	996	989	480
35°	943	930	904	876	863	590
45°	811	796	767	735	722	625
55°	658	643	613	583	569	588
65°	496	478	444	420	404	493
75°	346	311	276	256	241	365
85°	167	144	122	111	100	157
90°	100	91	78	70	59	57
95°	80	74	67	59	52	63
105°	59	56	50	44	41	63
115°	41	37	37	32	32	41
125°	26	22	24	20	22	23
135°	15	13	13	13	15	12
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°	1131.6	1131.6	1131.6	1131.6	1131.6
2.5°	1131.6	1129.7	1129.7	1129.7	1129.7
5°	1127.9	1126.0	1126.0	1124.2	1124.2
7.5°	1126.0	1122.3	1120.4	1118.6	1118.6
10°	1120.4	1116.7	1113.0	1109.3	1109.3
12.5°	1113.0	1109.3	1103.8	1096.4	1096.4
15°	1103.8	1098.2	1090.8	1083.4	1079.7
17.5°	1092.7	1087.1	1076.0	1064.9	1061.2
20°	1077.9	1070.4	1059.3	1044.5	1040.8
22.5°	1061.2	1053.8	1037.1	1022.3	1014.9
25°	1042.7	1033.4	1014.9	996.4	989.0
27.5°	1020.4	1011.2	990.8	968.6	959.3
30°	996.4	985.3	963.0	939.0	927.8
32.5°	970.4	957.5	933.4	907.5	896.4
35°	942.7	929.7	903.8	876.0	863.0
37.5°	913.0	900.1	872.3	842.7	829.7
40°	879.7	866.7	837.1	807.5	792.6
42.5°	844.5	833.4	803.8	772.3	757.5
45°	811.2	796.4	766.7	735.2	722.3
47.5°	772.3	761.2	729.7	698.2	683.4
50°	735.2	722.3	692.6	661.2	644.5
52.5°	696.3	685.2	653.7	622.3	607.5
55°	657.5	642.6	613.0	583.4	568.6
57.5°	616.7	603.7	574.1	546.3	527.8
60°	576.0	563.0	531.5	505.6	485.2
62.5°	537.1	522.3	488.9	461.1	444.5
65°	496.3	477.8	444.5	420.4	403.7
67.5°	457.4	435.2	401.9	379.7	363.0
70°	420.4	394.5	361.1	338.9	322.2
72.5°	383.4	351.9	316.7	296.3	281.5
75°	346.3	311.1	275.9	255.6	240.8
77.5°	309.3	268.5	233.3	216.7	201.9
80°	264.8	225.9	192.6	177.8	163.0
82.5°	214.8	183.3	155.6	140.8	129.6
85°	166.7	144.5	122.2	111.1	100.0
87.5°	129.6	113.0	96.3	87.0	77.8
90°	100.0	90.7	77.8	70.4	59.3
92.5°	87.0	79.6	70.4	63.0	53.7
95°	79.6	74.1	66.7	59.3	51.9
97.5°	72.2	68.5	61.1	55.6	48.2
100°	68.5	63.0	57.4	51.9	46.3
102.5°	64.8	59.3	53.7	48.2	44.4
105°	59.3	55.6	50.0	44.4	40.7
107.5°	55.6	50.0	46.3	40.7	38.9
110°	50.0	46.3	42.6	38.9	37.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	44.4	42.6	38.9	35.2	33.3
115°	40.7	37.0	37.0	31.5	31.5
117.5°	37.0	33.3	33.3	29.6	29.6
120°	31.5	29.6	29.6	25.9	25.9
122.5°	27.8	25.9	25.9	24.1	24.1
125°	25.9	22.2	24.1	20.4	22.2
127.5°	22.2	20.4	20.4	18.5	20.4
130°	18.5	16.7	16.7	16.7	18.5
132.5°	16.7	14.8	14.8	14.8	16.7
135°	14.8	13.0	13.0	13.0	14.8
137.5°	13.0	11.1	9.3	11.1	13.0
140°	11.1	9.3	7.4	9.3	11.1
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)