

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: P384238

Luminaire Tested: **14ID-40-L830-CFD2**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P384238  
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: 14ID-40-L830-CFD2  
Description: 1X4 IN DEPTH TROFFER WITH 2INCH DROP CUBE LENS

Light Source: -  
Ballast/Driver: -

**Summary**

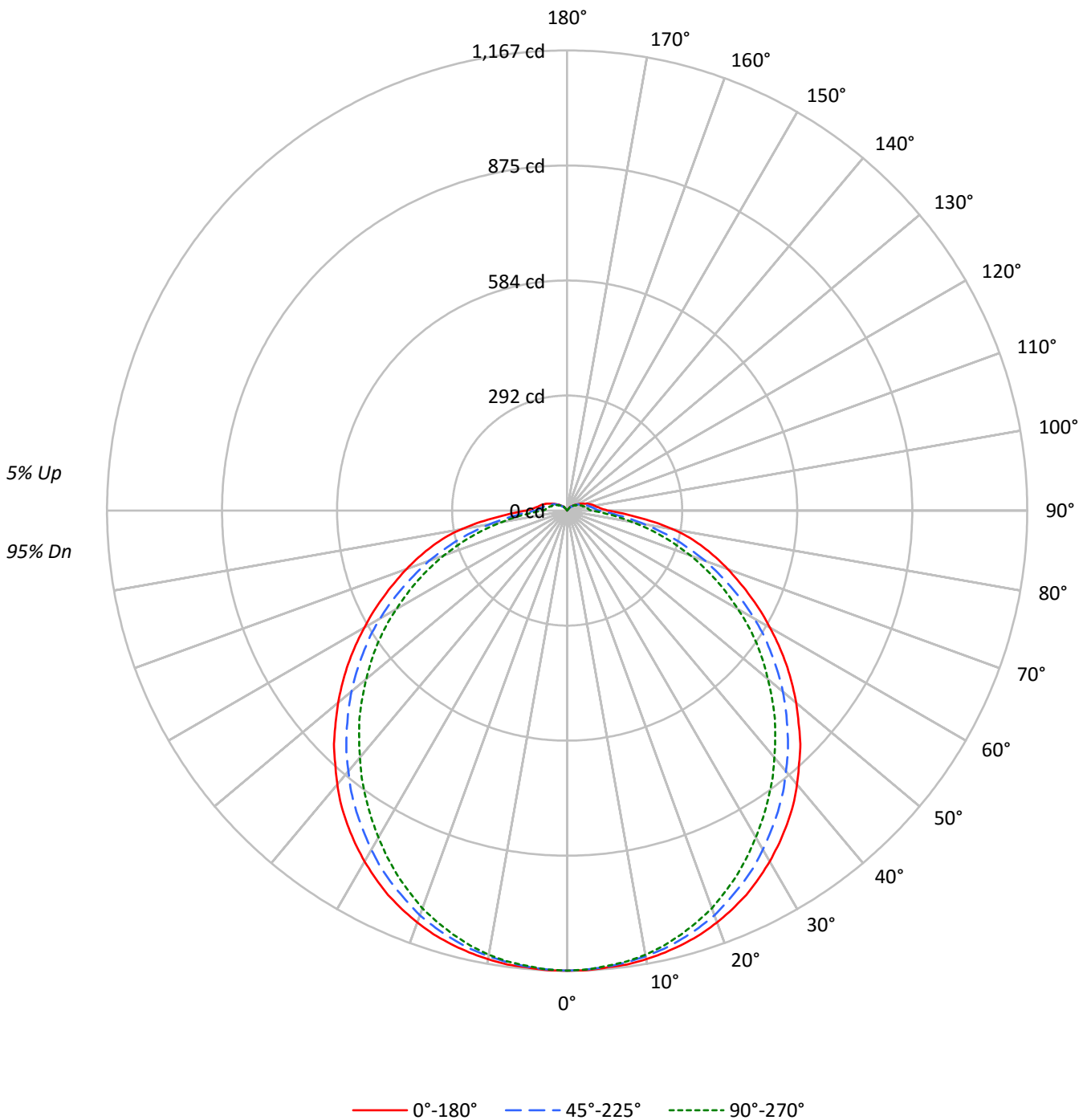
Lumens per Lamp: N/A  
Luminaire Lumens: 3784.5 lumens  
Efficiency: N/A  
Efficacy: 113.3 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 1.22 / 1.38  
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.17')  
CIE Type: Direct

Input Watts (W): 33.4  
Input Voltage (V): NR  
Input Current (Ain): 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°	3140	3140	3140
5°	3130	3097	3086
10°	3134	3057	3036
15°	3136	3015	2969
20°	3135	2969	2898
25°	3132	2908	2810
30°	3117	2844	2712
35°	3103	2775	2618
40°	3079	2699	2519
45°	3056	2622	2430
50°	3024	2543	2321
55°	3002	2450	2222
60°	2981	2350	2089
65°	2992	2218	1953
70°	3060	2086	1793
75°	3213	1909	1592
80°	3423	1677	1339
85°	3595	1450	1096



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	110.4	2.9
10°-20°	317.6	8.4
20°-30°	482.3	12.7
30°-40°	582.6	15.4
40°-50°	609.8	16.1
50°-60°	565.8	15.0
60°-70°	458.3	12.1
70°-80°	309.3	8.2
80°-90°	149.4	3.9
90°-100°	75.2	2.0
100°-110°	54.6	1.4
110°-120°	36.5	1.0
120°-130°	21.2	0.6
130°-140°	10.7	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°	910.3	24.1
0°-40°	1492.9	39.4
0°-60°	2668.5	70.5
0°-90°	3585.5	94.7
90°-120°	166.3	4.4
90°-150°	199.0	5.3
90°-180°	199.0	5.3
0°-180°	3784.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1167	1167	1167	1167	1167	
5°	1163	1161	1161	1159	1159	111
15°	1138	1132	1125	1117	1113	322
25°	1075	1066	1046	1027	1020	495
35°	972	959	932	903	890	608
45°	836	821	791	758	745	644
55°	678	663	632	602	586	606
65°	512	493	458	434	416	508
75°	357	321	284	264	248	376
85°	172	149	126	115	103	162
90°	103	94	80	73	61	59
95°	82	76	69	61	54	65
105°	61	57	52	46	42	65
115°	42	38	38	32	32	42
125°	27	23	25	21	23	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°	1166.8	1166.8	1166.8	1166.8	1166.8
2.5°	1166.8	1164.9	1164.9	1164.9	1164.9
5°	1163.0	1161.1	1161.1	1159.2	1159.2
7.5°	1161.1	1157.3	1155.4	1153.5	1153.5
10°	1155.4	1151.6	1147.7	1143.9	1143.9
12.5°	1147.7	1143.9	1138.2	1130.5	1130.5
15°	1138.2	1132.5	1124.8	1117.2	1113.4
17.5°	1126.7	1121.0	1109.5	1098.1	1094.3
20°	1111.5	1103.8	1092.4	1077.1	1073.3
22.5°	1094.3	1086.6	1069.4	1054.2	1046.5
25°	1075.2	1065.6	1046.5	1027.4	1019.8
27.5°	1052.2	1042.7	1021.7	998.8	989.2
30°	1027.4	1016.0	993.0	968.2	956.8
32.5°	1000.7	987.3	962.5	935.8	924.3
35°	972.0	958.7	931.9	903.3	889.9
37.5°	941.5	928.1	899.5	868.9	855.5
40°	907.1	893.7	863.2	832.6	817.4
42.5°	870.8	859.4	828.8	796.3	781.1
45°	836.5	821.2	790.6	758.2	744.8
47.5°	796.3	784.9	752.4	720.0	704.7
50°	758.2	744.8	714.2	681.8	664.6
52.5°	718.1	706.6	674.1	641.7	626.4
55°	677.9	662.7	632.1	601.6	586.3
57.5°	635.9	622.6	592.0	563.4	544.3
60°	593.9	580.6	548.1	521.4	500.3
62.5°	553.8	538.5	504.2	475.5	458.3
65°	511.8	492.7	458.3	433.5	416.3
67.5°	471.7	448.8	414.4	391.5	374.3
70°	433.5	406.8	372.4	349.5	332.3
72.5°	395.3	362.8	326.6	305.6	290.3
75°	357.1	320.8	284.5	263.5	248.3
77.5°	318.9	276.9	240.6	223.4	208.2
80°	273.1	233.0	198.6	183.3	168.1
82.5°	221.5	189.1	160.4	145.1	133.7
85°	171.9	149.0	126.0	114.6	103.1
87.5°	133.7	116.5	99.3	89.8	80.2
90°	103.1	93.6	80.2	72.6	61.1
92.5°	89.8	82.1	72.6	64.9	55.4
95°	82.1	76.4	68.7	61.1	53.5
97.5°	74.5	70.7	63.0	57.3	49.7
100°	70.7	64.9	59.2	53.5	47.7
102.5°	66.8	61.1	55.4	49.7	45.8
105°	61.1	57.3	51.6	45.8	42.0
107.5°	57.3	51.6	47.7	42.0	40.1
110°	51.6	47.7	43.9	40.1	38.2



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	45.8	43.9	40.1	36.3	34.4
115°	42.0	38.2	38.2	32.5	32.5
117.5°	38.2	34.4	34.4	30.6	30.6
120°	32.5	30.6	30.6	26.7	26.7
122.5°	28.6	26.7	26.7	24.8	24.8
125°	26.7	22.9	24.8	21.0	22.9
127.5°	22.9	21.0	21.0	19.1	21.0
130°	19.1	17.2	17.2	17.2	19.1
132.5°	17.2	15.3	15.3	15.3	17.2
135°	15.3	13.4	13.4	13.4	15.3
137.5°	13.4	11.5	9.5	11.5	13.4
140°	11.5	9.5	7.6	9.5	11.5
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)