

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: P384302

Luminaire Tested: **22ID-50-L830-CFD2**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P384302  
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-L830-CFD2  
Description: 2X2 IN DEPTH TROFFER WITH 2INCH DROP CUBE LENS

Light Source: -  
Ballast/Driver: -

**Summary**

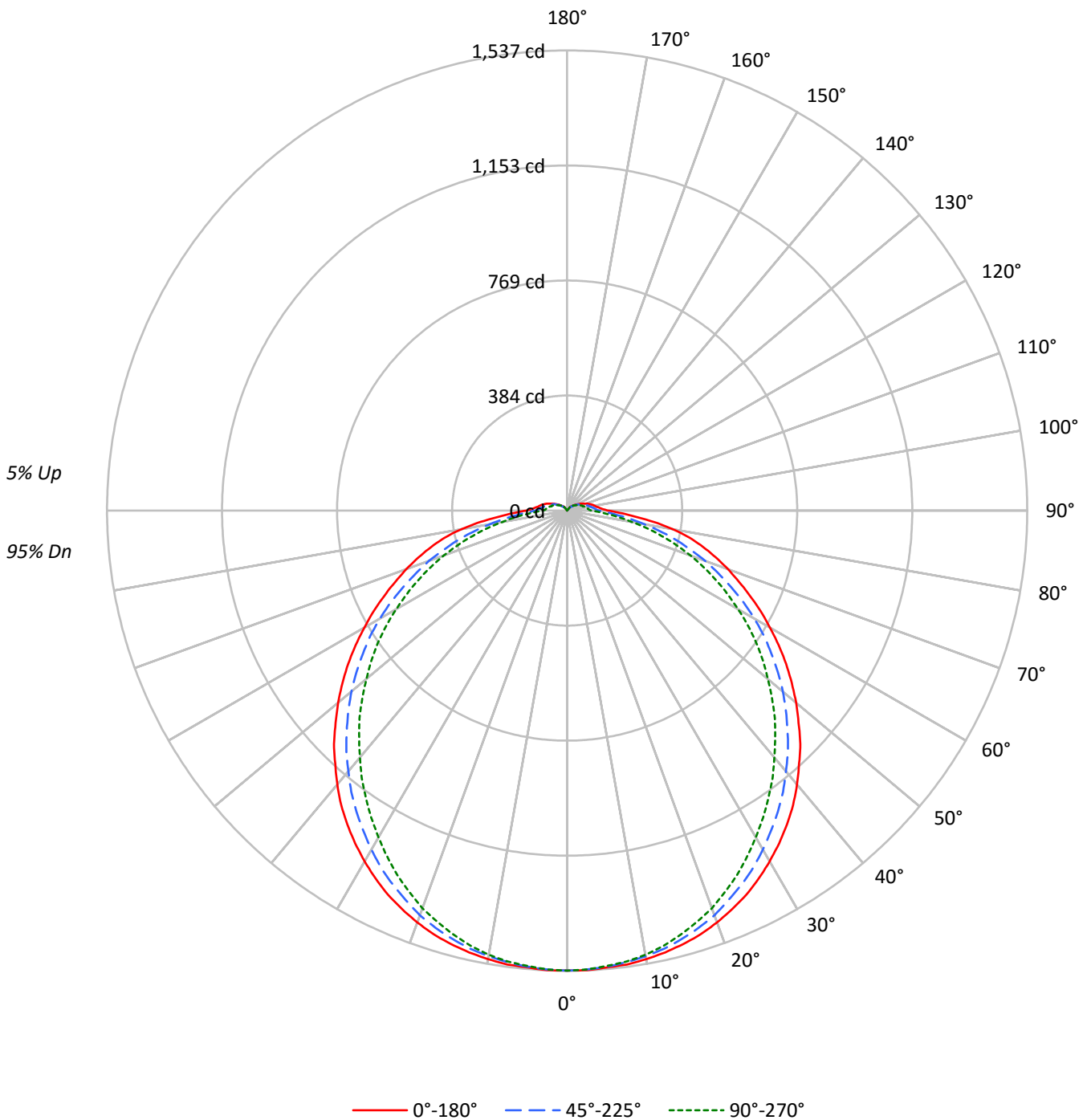
Lumens per Lamp: N/A  
Luminaire Lumens: 4983.8 lumens  
Efficiency: N/A  
Efficacy: 121.3 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 1.22 / 1.38  
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.17')  
CIE Type: Direct

Input Watts (W): 41.1  
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°	4135	4135	4135
5°	4107	4088	4094
10°	4097	4046	4057
15°	4085	4000	3995
20°	4068	3950	3928
25°	4047	3879	3838
30°	4011	3805	3735
35°	3973	3724	3638
40°	3922	3634	3534
45°	3869	3545	3445
50°	3802	3453	3333
55°	3743	3343	3237
60°	3678	3226	3099
65°	3641	3068	2961
70°	3655	2915	2802
75°	3730	2706	2593
80°	3784	2429	2329
85°	3579	2184	2147



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	145.4	2.9
10°-20°	418.2	8.4
20°-30°	635.2	12.7
30°-40°	767.2	15.4
40°-50°	803.0	16.1
50°-60°	745.1	15.0
60°-70°	603.5	12.1
70°-80°	407.3	8.2
80°-90°	196.8	3.9
90°-100°	99.0	2.0
100°-110°	72.0	1.4
110°-120°	48.1	1.0
120°-130°	27.9	0.6
130°-140°	14.0	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°	1198.8	24.1
0°-40°	1966.0	39.4
0°-60°	3514.2	70.5
0°-90°	4721.8	94.7
90°-120°	219.0	4.4
90°-150°	262.0	5.3
90°-180°	262.0	5.3
0°-180°	4983.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1537	1537	1537	1537	1537	
5°	1532	1529	1529	1526	1526	146
15°	1499	1491	1481	1471	1466	423
25°	1416	1403	1378	1353	1343	652
35°	1280	1262	1227	1190	1172	801
45°	1102	1081	1041	998	981	849
55°	893	873	832	792	772	798
65°	674	649	604	571	548	669
75°	470	422	375	347	327	495
85°	226	196	166	151	136	214
90°	136	123	106	96	80	78
95°	108	101	90	80	70	85
105°	80	75	68	60	55	86
115°	55	50	50	43	43	55
125°	35	30	33	28	30	31
135°	20	18	18	18	20	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°	1536.6	1536.6	1536.6	1536.6	1536.6
2.5°	1536.6	1534.1	1534.1	1534.1	1534.1
5°	1531.6	1529.1	1529.1	1526.5	1526.5
7.5°	1529.1	1524.0	1521.5	1519.0	1519.0
10°	1521.5	1516.5	1511.5	1506.4	1506.4
12.5°	1511.5	1506.4	1498.9	1488.8	1488.8
15°	1498.9	1491.3	1481.3	1471.2	1466.2
17.5°	1483.8	1476.2	1461.2	1446.1	1441.0
20°	1463.7	1453.6	1438.5	1418.4	1413.4
22.5°	1441.0	1431.0	1408.3	1388.2	1378.2
25°	1415.9	1403.3	1378.2	1353.0	1343.0
27.5°	1385.7	1373.1	1345.5	1315.3	1302.7
30°	1353.0	1337.9	1307.7	1275.1	1260.0
32.5°	1317.8	1300.2	1267.5	1232.3	1217.2
35°	1280.1	1262.5	1227.3	1189.5	1171.9
37.5°	1239.8	1222.2	1184.5	1144.3	1126.7
40°	1194.6	1177.0	1136.7	1096.5	1076.4
42.5°	1146.8	1131.7	1091.5	1048.7	1028.6
45°	1101.5	1081.4	1041.2	998.4	980.8
47.5°	1048.7	1033.6	990.9	948.1	928.0
50°	998.4	980.8	940.6	897.8	875.2
52.5°	945.6	930.5	887.8	845.0	824.9
55°	892.8	872.7	832.4	792.2	772.1
57.5°	837.5	819.9	779.6	741.9	716.7
60°	782.1	764.5	721.8	686.6	658.9
62.5°	729.3	709.2	663.9	626.2	603.6
65°	674.0	648.8	603.6	570.9	548.2
67.5°	621.2	591.0	545.7	515.6	492.9
70°	570.9	535.7	490.4	460.2	437.6
72.5°	520.6	477.8	430.0	402.4	382.3
75°	470.3	422.5	374.7	347.1	326.9
77.5°	420.0	364.7	316.9	294.2	274.1
80°	359.6	306.8	261.5	241.4	221.3
82.5°	291.7	249.0	211.3	191.1	176.0
85°	226.3	196.2	166.0	150.9	135.8
87.5°	176.0	153.4	130.8	118.2	105.6
90°	135.8	123.2	105.6	95.6	80.5
92.5°	118.2	108.1	95.6	85.5	72.9
95°	108.1	100.6	90.5	80.5	70.4
97.5°	98.1	93.1	83.0	75.4	65.4
100°	93.1	85.5	78.0	70.4	62.9
102.5°	88.0	80.5	72.9	65.4	60.4
105°	80.5	75.4	67.9	60.4	55.3
107.5°	75.4	67.9	62.9	55.3	52.8
110°	67.9	62.9	57.8	52.8	50.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	60.4	57.8	52.8	47.8	45.3
115°	55.3	50.3	50.3	42.8	42.8
117.5°	50.3	45.3	45.3	40.2	40.2
120°	42.8	40.2	40.2	35.2	35.2
122.5°	37.7	35.2	35.2	32.7	32.7
125°	35.2	30.2	32.7	27.7	30.2
127.5°	30.2	27.7	27.7	25.1	27.7
130°	25.1	22.6	22.6	22.6	25.1
132.5°	22.6	20.1	20.1	20.1	22.6
135°	20.1	17.6	17.6	17.6	20.1
137.5°	17.6	15.1	12.6	15.1	17.6
140°	15.1	12.6	10.1	12.6	15.1
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)