

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: P384366

Luminaire Tested: **24ID-65-L830-CFD2**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P384366  
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: 24ID-65-L830-CFD2  
Description: 2X4 IN DEPTH TROFFER WITH 2INCH DROP CUBE LENS

Light Source: -  
Ballast/Driver: -

**Summary**

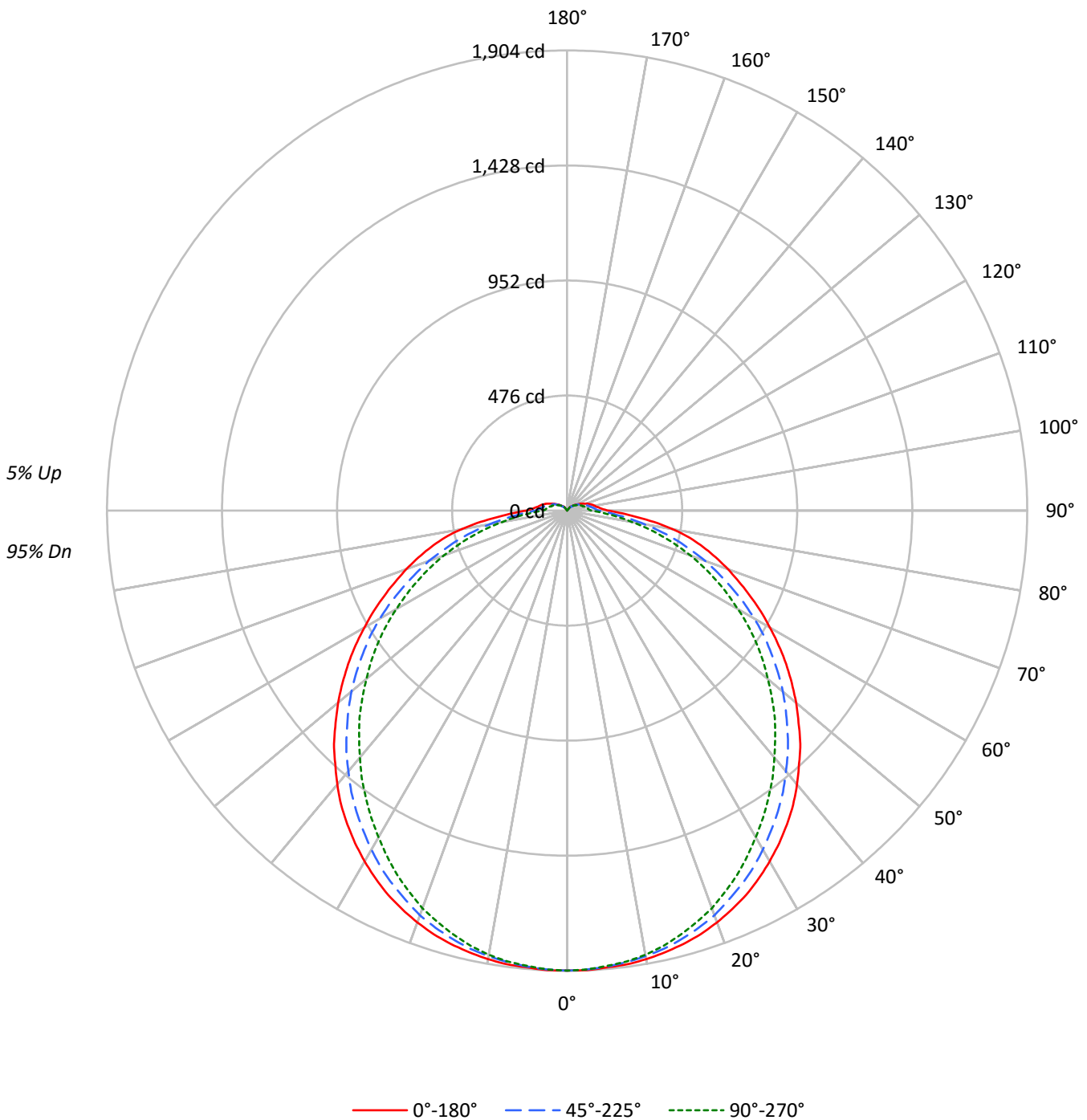
Lumens per Lamp: N/A  
Luminaire Lumens: 6173.7 lumens  
Efficiency: N/A  
Efficacy: 102.0 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 1.22 / 1.38  
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.17')  
CIE Type: Direct

Input Watts (W): 60.5  
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°	2561	2561	2561
5°	2553	2539	2536
10°	2556	2519	2513
15°	2558	2497	2475
20°	2557	2472	2433
25°	2554	2434	2377
30°	2543	2395	2314
35°	2531	2352	2253
40°	2511	2302	2189
45°	2493	2255	2134
50°	2466	2206	2064
55°	2449	2148	2005
60°	2432	2087	1919
65°	2440	2001	1834
70°	2496	1923	1735
75°	2621	1815	1606
80°	2792	1672	1442
85°	2932	1579	1330



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	180.1	2.9
10°-20°	518.0	8.4
20°-30°	786.8	12.7
30°-40°	950.4	15.4
40°-50°	994.7	16.1
50°-60°	923.0	15.0
60°-70°	747.6	12.1
70°-80°	504.5	8.2
80°-90°	243.8	3.9
90°-100°	122.6	2.0
100°-110°	89.1	1.4
110°-120°	59.6	1.0
120°-130°	34.5	0.6
130°-140°	17.4	0.3
140°-150°	1.3	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1485.0	24.1
0°-40°	2435.4	39.4
0°-60°	4353.2	70.5
0°-90°	5849.1	94.7
90°-120°	271.3	4.4
90°-150°	324.6	5.3
90°-180°	325.0	5.3
0°-180°	6173.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1904	1904	1904	1904	1904	
5°	1897	1894	1894	1891	1891	181
15°	1857	1847	1835	1822	1816	525
25°	1754	1738	1707	1676	1664	808
35°	1586	1564	1520	1474	1452	992
45°	1364	1340	1290	1237	1215	1051
55°	1106	1081	1031	981	956	989
65°	835	804	748	707	679	829
75°	583	523	464	430	405	614
85°	280	243	206	187	168	265
90°	168	153	131	118	100	96
95°	134	125	112	100	87	105
105°	100	94	84	75	68	106
115°	68	62	62	53	53	68
125°	44	37	40	34	37	38
135°	25	22	22	22	25	19
145°	0	0	0	0	0	2
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°	1903.5	1903.5	1903.5	1903.5	1903.5
2.5°	1903.5	1900.4	1900.4	1900.4	1900.4
5°	1897.2	1894.1	1894.1	1891.0	1891.0
7.5°	1894.1	1887.9	1884.8	1881.7	1881.7
10°	1884.8	1878.5	1872.3	1866.1	1866.1
12.5°	1872.3	1866.1	1856.7	1844.3	1844.3
15°	1856.7	1847.4	1834.9	1822.5	1816.2
17.5°	1838.0	1828.7	1810.0	1791.3	1785.1
20°	1813.1	1800.7	1782.0	1757.0	1750.8
22.5°	1785.1	1772.6	1744.6	1719.7	1707.2
25°	1753.9	1738.4	1707.2	1676.0	1663.6
27.5°	1716.5	1701.0	1666.7	1629.3	1613.7
30°	1676.0	1657.4	1620.0	1579.5	1560.8
32.5°	1632.4	1610.6	1570.1	1526.5	1507.8
35°	1585.7	1563.9	1520.3	1473.6	1451.7
37.5°	1535.9	1514.1	1467.3	1417.5	1395.7
40°	1479.8	1458.0	1408.1	1358.3	1333.4
42.5°	1420.6	1401.9	1352.1	1299.1	1274.2
45°	1364.5	1339.6	1289.7	1236.8	1215.0
47.5°	1299.1	1280.4	1227.4	1174.5	1149.6
50°	1236.8	1215.0	1165.1	1112.2	1084.1
52.5°	1171.4	1152.7	1099.7	1046.8	1021.8
55°	1105.9	1081.0	1031.2	981.3	956.4
57.5°	1037.4	1015.6	965.8	919.0	887.9
60°	968.9	947.1	894.1	850.5	816.2
62.5°	903.4	878.5	822.4	775.7	747.7
65°	834.9	803.8	747.7	707.2	679.1
67.5°	769.5	732.1	676.0	638.6	610.6
70°	707.2	663.6	607.5	570.1	542.1
72.5°	644.9	591.9	532.7	498.5	473.5
75°	582.6	523.4	464.2	429.9	405.0
77.5°	520.3	451.7	392.5	364.5	339.6
80°	445.5	380.1	324.0	299.1	274.1
82.5°	361.4	308.4	261.7	236.8	218.1
85°	280.4	243.0	205.6	186.9	168.2
87.5°	218.1	190.0	162.0	146.4	130.8
90°	168.2	152.7	130.8	118.4	99.7
92.5°	146.4	134.0	118.4	105.9	90.3
95°	134.0	124.6	112.2	99.7	87.2
97.5°	121.5	115.3	102.8	93.5	81.0
100°	115.3	105.9	96.6	87.2	77.9
102.5°	109.0	99.7	90.3	81.0	74.8
105°	99.7	93.5	84.1	74.8	68.5
107.5°	93.5	84.1	77.9	68.5	65.4
110°	84.1	77.9	71.7	65.4	62.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	74.8	71.7	65.4	59.2	56.1
115°	68.5	62.3	62.3	53.0	53.0
117.5°	62.3	56.1	56.1	49.8	49.8
120°	53.0	49.8	49.8	43.6	43.6
122.5°	46.7	43.6	43.6	40.5	40.5
125°	43.6	37.4	40.5	34.3	37.4
127.5°	37.4	34.3	34.3	31.2	34.3
130°	31.2	28.0	28.0	28.0	31.2
132.5°	28.0	24.9	24.9	24.9	28.0
135°	24.9	21.8	21.8	21.8	24.9
137.5°	21.8	18.7	15.6	18.7	21.8
140°	18.7	15.6	12.5	15.6	18.7
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)