

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: P384709

Luminaire Tested: **24ID-70-L850-CFD3**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P384709  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-69)  
Test Lab: INNOVATION CENTER (G2)  
Issue Date: 2/25/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 24ID-70-L850-CFD3  
Description: 2X4 IN DEPTH TROFFER WITH 3INCH DROP CUBE LENS

Light Source: -  
Ballast/Driver: -

**Summary**

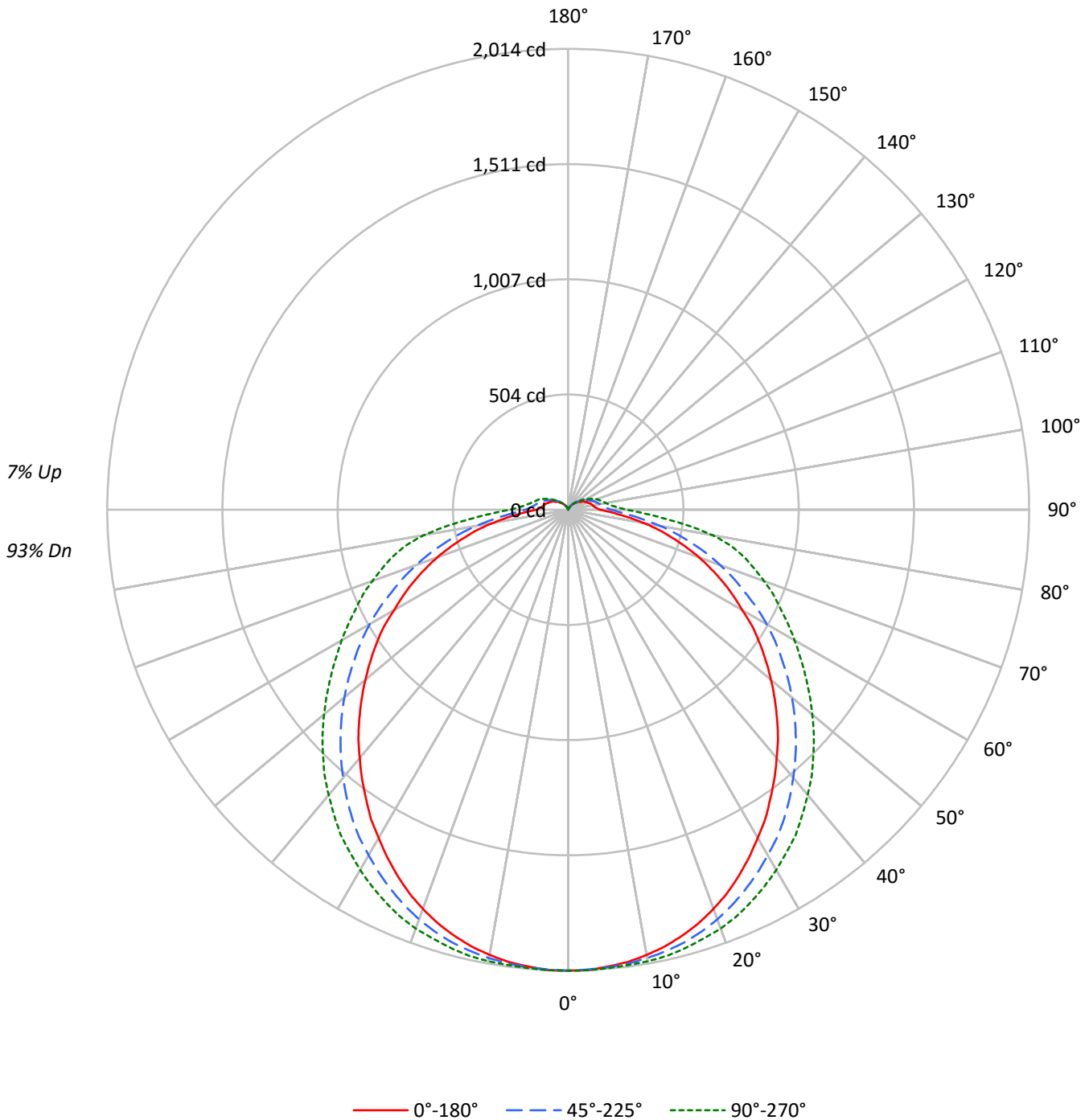
Lumens per Lamp: N/A  
Luminaire Lumens: 7049.4 lumens  
Efficiency: N/A  
Efficacy: 107.3 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.41  
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.25')  
CIE Type: Direct

Input Watts (W): 65.7  
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	117	117	117	117	114	114	114	114	107	107	107	101	101	101	95	95	95	93
1	105	100	95	91	102	97	93	89	91	88	84	86	83	80	81	79	77	74
2	95	86	79	73	92	84	77	71	79	73	68	74	70	66	70	67	63	60
3	86	75	66	60	83	73	65	59	69	62	57	65	59	55	62	57	53	50
4	79	66	57	50	76	64	56	49	61	54	48	58	51	46	55	49	45	42
5	72	59	50	43	70	57	49	42	54	47	41	52	45	40	49	43	39	36
6	67	53	44	37	64	52	43	37	49	41	36	47	40	35	44	39	34	32
7	62	48	39	33	60	47	38	32	44	37	31	42	36	31	40	35	30	28
8	57	44	35	29	55	43	34	29	41	33	28	39	32	27	37	31	27	25
9	54	40	32	26	52	39	31	26	37	30	25	36	29	25	34	28	24	22
10	50	37	29	23	49	36	28	23	35	28	23	33	27	22	32	26	22	20

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2710	2710	2710
5°	2692	2680	2687
10°	2670	2657	2679
15°	2639	2634	2672
20°	2599	2603	2667
25°	2546	2561	2653
30°	2483	2517	2634
35°	2423	2473	2618
40°	2364	2417	2588
45°	2311	2363	2563
50°	2253	2307	2536
55°	2203	2247	2519
60°	2134	2193	2527
65°	2092	2109	2569
70°	2042	2038	2666
75°	1971	1932	2816
80°	1911	1804	2901
85°	1932	1661	2614



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	191.0	2.7
10°-20°	552.0	7.8
20°-30°	843.3	12.0
30°-40°	1026.6	14.6
40°-50°	1085.0	15.4
50°-60°	1024.2	14.5
60°-70°	861.7	12.2
70°-80°	621.2	8.8
80°-90°	327.6	4.6
90°-100°	175.4	2.5
100°-110°	133.2	1.9
110°-120°	96.6	1.4
120°-130°	60.7	0.9
130°-140°	32.8	0.5
140°-150°	14.3	0.2
150°-160°	3.8	0.1
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	1586.3	22.5
0°-40°	2612.9	37.1
0°-60°	4722.0	67.0
0°-90°	6532.6	92.7
90°-120°	405.2	5.7
90°-150°	512.9	7.3
90°-180°	517.0	7.3
0°-180°	7049.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2014	2014	2014	2014	2014	
5°	2004	2004	2007	2007	2011	190
15°	1927	1934	1958	1972	1983	543
25°	1765	1786	1832	1874	1891	813
35°	1540	1575	1645	1709	1733	964
45°	1290	1329	1406	1484	1515	996
55°	1023	1069	1139	1223	1266	914
65°	745	788	851	956	1023	737
75°	468	506	556	664	794	496
85°	214	243	271	338	411	201
90°	137	162	186	222	253	79
95°	120	137	158	179	193	95
105°	102	112	127	141	148	107
115°	81	88	98	106	112	81
125°	60	60	70	70	74	54
135°	42	39	42	42	46	32
145°	25	21	21	21	25	16
155°	10	10	4	7	10	5
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°	2014.5	2014.5	2014.5	2014.5	2014.5
2.5°	2014.5	2011.0	2011.0	2011.0	2014.5
5°	2003.9	2003.9	2007.4	2007.4	2011.0
7.5°	1993.4	1993.4	2000.4	2003.9	2007.4
10°	1975.8	1979.3	1989.9	1996.9	2003.9
12.5°	1954.7	1958.2	1975.8	1989.9	1996.9
15°	1926.6	1933.6	1958.2	1972.3	1982.8
17.5°	1894.9	1905.5	1933.6	1954.7	1965.2
20°	1856.3	1870.3	1905.5	1933.6	1947.7
22.5°	1814.1	1828.1	1870.3	1905.5	1923.1
25°	1764.9	1786.0	1831.7	1873.8	1891.4
27.5°	1712.1	1736.7	1789.5	1838.7	1856.3
30°	1655.9	1684.0	1743.8	1796.5	1817.6
32.5°	1603.1	1631.3	1698.1	1754.3	1775.4
35°	1539.9	1575.0	1645.3	1708.6	1733.2
37.5°	1480.1	1515.2	1589.1	1655.9	1680.5
40°	1416.8	1452.0	1529.3	1603.1	1627.7
42.5°	1357.0	1392.2	1469.5	1546.9	1575.0
45°	1290.2	1328.9	1406.3	1483.6	1515.2
47.5°	1223.4	1262.1	1343.0	1423.8	1455.5
50°	1156.6	1198.8	1276.2	1357.0	1392.2
52.5°	1089.9	1132.0	1209.4	1293.8	1328.9
55°	1023.1	1068.8	1139.1	1223.4	1265.6
57.5°	956.3	1002.0	1072.3	1160.2	1202.4
60°	878.9	931.6	1002.0	1093.4	1142.6
62.5°	812.1	857.8	928.1	1023.1	1082.8
65°	745.3	787.5	850.8	956.3	1023.1
67.5°	675.0	720.7	780.5	878.9	970.3
70°	608.2	646.9	706.6	808.6	910.6
72.5°	537.9	576.6	632.8	738.3	850.8
75°	467.6	506.3	555.5	664.5	794.5
77.5°	404.3	435.9	481.6	587.1	727.7
80°	334.0	365.6	407.8	502.7	639.8
82.5°	270.7	298.8	334.0	418.4	527.3
85°	214.5	242.6	270.7	337.5	411.3
87.5°	172.3	193.4	221.5	270.7	319.9
90°	137.1	161.7	186.3	221.5	253.1
92.5°	126.6	147.7	168.8	196.9	218.0
95°	119.5	137.1	158.2	179.3	193.4
97.5°	112.5	130.1	147.7	168.8	179.3
100°	109.0	123.0	140.6	158.2	165.2
102.5°	105.5	116.0	133.6	147.7	158.2
105°	102.0	112.5	126.6	140.6	147.7
107.5°	94.9	105.5	119.5	133.6	140.6
110°	91.4	98.4	112.5	123.0	133.6



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	87.9	94.9	105.5	116.0	123.0
115°	80.9	87.9	98.4	105.5	112.5
117.5°	77.3	80.9	91.4	94.9	102.0
120°	70.3	73.8	84.4	87.9	91.4
122.5°	63.3	66.8	77.3	77.3	84.4
125°	59.8	59.8	70.3	70.3	73.8
127.5°	56.3	56.3	63.3	63.3	66.8
130°	49.2	49.2	56.3	56.3	56.3
132.5°	45.7	42.2	49.2	49.2	52.7
135°	42.2	38.7	42.2	42.2	45.7
137.5°	35.2	35.2	38.7	35.2	38.7
140°	31.6	28.1	31.6	31.6	35.2
142.5°	28.1	24.6	28.1	24.6	28.1
145°	24.6	21.1	21.1	21.1	24.6
147.5°	21.1	17.6	17.6	17.6	21.1
150°	17.6	14.1	14.1	14.1	17.6
152.5°	14.1	10.5	7.0	10.5	14.1
155°	10.5	10.5	3.5	7.0	10.5
157.5°	7.0	7.0	0.0	3.5	7.0
160°	3.5	3.5	0.0	3.5	3.5
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)