

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: P384697

Luminaire Tested: **24ID-55-L850-CFD3**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P384697  
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-55-L850-CFD3  
Description: 2X4 IN DEPTH TROFFER WITH 3INCH DROP CUBE LENS

Light Source: -  
Ballast/Driver: -

**Summary**

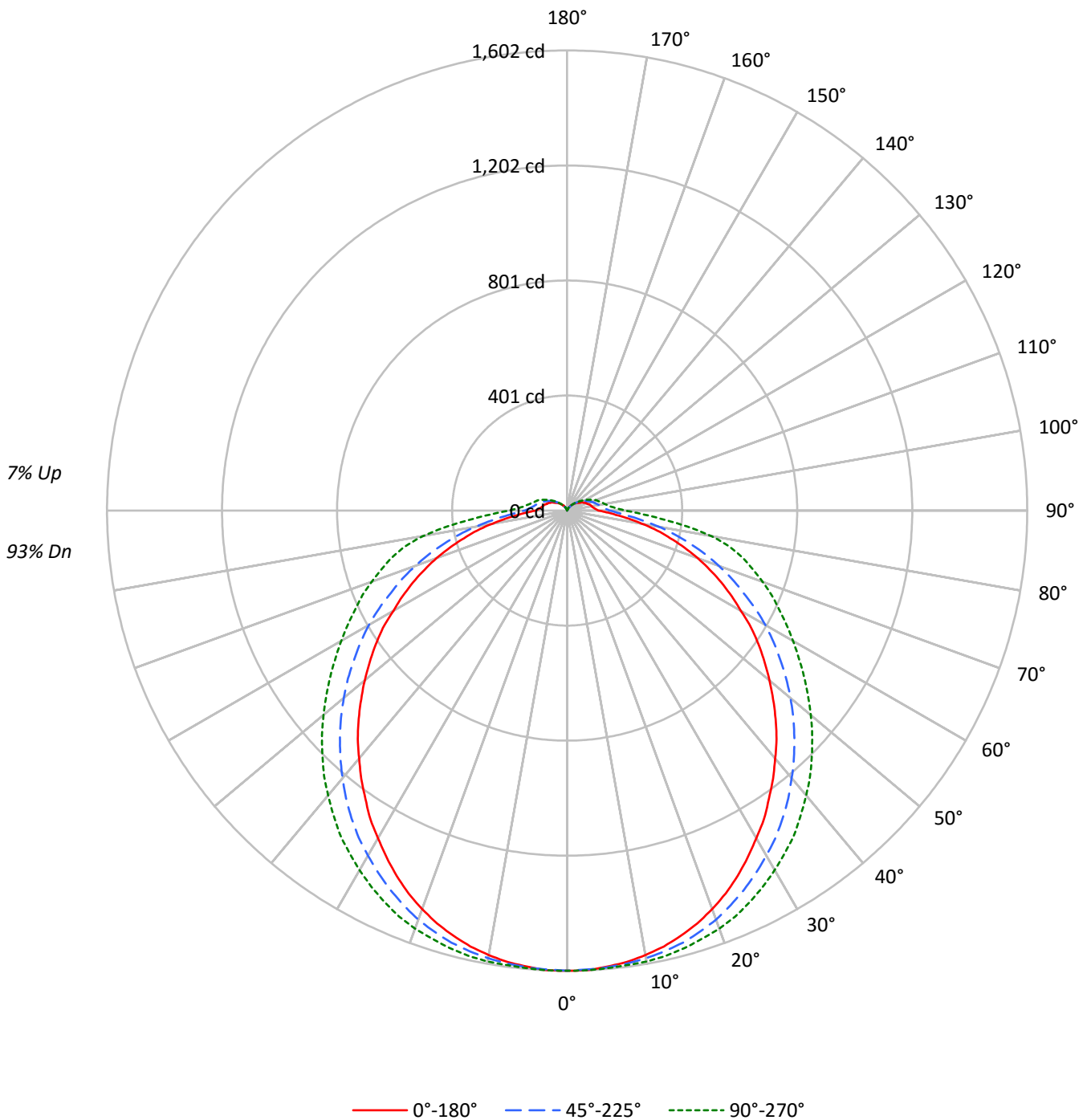
Lumens per Lamp: N/A  
Luminaire Lumens: 5605.8 lumens  
Efficiency: N/A  
Efficacy: 111.7 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.41  
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.25')  
CIE Type: Direct

Input Watts (W): 50.2  
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°	2155	2155	2155
5°	2141	2131	2136
10°	2123	2113	2130
15°	2099	2095	2125
20°	2067	2070	2121
25°	2024	2037	2110
30°	1975	2001	2094
35°	1927	1967	2082
40°	1880	1922	2058
45°	1837	1879	2038
50°	1792	1834	2017
55°	1752	1787	2003
60°	1697	1744	2010
65°	1664	1677	2043
70°	1624	1620	2120
75°	1567	1536	2240
80°	1519	1434	2307
85°	1535	1321	2079



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	151.9	2.7
10°-20°	438.9	7.8
20°-30°	670.6	12.0
30°-40°	816.3	14.6
40°-50°	862.8	15.4
50°-60°	814.4	14.5
60°-70°	685.2	12.2
70°-80°	494.0	8.8
80°-90°	260.5	4.6
90°-100°	139.5	2.5
100°-110°	105.9	1.9
110°-120°	76.8	1.4
120°-130°	48.2	0.9
130°-140°	26.1	0.5
140°-150°	11.4	0.2
150°-160°	3.0	0.1
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	1261.5	22.5
0°-40°	2077.8	37.1
0°-60°	3755.0	67.0
0°-90°	5194.8	92.7
90°-120°	322.2	5.7
90°-150°	407.9	7.3
90°-180°	411.0	7.3
0°-180°	5605.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1602	1602	1602	1602	1602	
5°	1594	1594	1596	1596	1599	151
15°	1532	1538	1557	1568	1577	432
25°	1403	1420	1457	1490	1504	646
35°	1224	1252	1308	1359	1378	767
45°	1026	1057	1118	1180	1205	792
55°	814	850	906	973	1006	727
65°	593	626	677	760	814	586
75°	372	403	442	528	632	395
85°	170	193	215	268	327	160
90°	109	129	148	176	201	62
95°	95	109	126	143	154	76
105°	81	90	101	112	117	85
115°	64	70	78	84	90	65
125°	48	48	56	56	59	43
135°	34	31	34	34	36	25
145°	20	17	17	17	20	12
155°	8	8	3	6	8	4
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°	1601.9	1601.9	1601.9	1601.9	1601.9
2.5°	1601.9	1599.1	1599.1	1599.1	1601.9
5°	1593.6	1593.6	1596.3	1596.3	1599.1
7.5°	1585.2	1585.2	1590.8	1593.6	1596.3
10°	1571.2	1574.0	1582.4	1588.0	1593.6
12.5°	1554.4	1557.2	1571.2	1582.4	1588.0
15°	1532.0	1537.6	1557.2	1568.4	1576.8
17.5°	1506.9	1515.3	1537.6	1554.4	1562.8
20°	1476.1	1487.3	1515.3	1537.6	1548.8
22.5°	1442.6	1453.8	1487.3	1515.3	1529.3
25°	1403.4	1420.2	1456.6	1490.1	1504.1
27.5°	1361.5	1381.1	1423.0	1462.2	1476.1
30°	1316.8	1339.1	1386.7	1428.6	1445.4
32.5°	1274.8	1297.2	1350.3	1395.1	1411.8
35°	1224.5	1252.5	1308.4	1358.7	1378.3
37.5°	1177.0	1204.9	1263.7	1316.8	1336.3
40°	1126.7	1154.6	1216.1	1274.8	1294.4
42.5°	1079.1	1107.1	1168.6	1230.1	1252.5
45°	1026.0	1056.8	1118.3	1179.8	1204.9
47.5°	972.9	1003.7	1068.0	1132.3	1157.4
50°	919.8	953.3	1014.8	1079.1	1107.1
52.5°	866.7	900.2	961.7	1028.8	1056.8
55°	813.6	849.9	905.8	972.9	1006.5
57.5°	760.4	796.8	852.7	922.6	956.1
60°	698.9	740.9	796.8	869.5	908.6
62.5°	645.8	682.2	738.1	813.6	861.1
65°	592.7	626.2	676.6	760.4	813.6
67.5°	536.8	573.1	620.6	698.9	771.6
70°	483.7	514.4	561.9	643.0	724.1
72.5°	427.7	458.5	503.2	587.1	676.6
75°	371.8	402.6	441.7	528.4	631.8
77.5°	321.5	346.7	383.0	466.9	578.7
80°	265.6	290.8	324.3	399.8	508.8
82.5°	215.3	237.6	265.6	332.7	419.4
85°	170.5	192.9	215.3	268.4	327.1
87.5°	137.0	153.8	176.1	215.3	254.4
90°	109.0	128.6	148.2	176.1	201.3
92.5°	100.6	117.4	134.2	156.6	173.3
95°	95.1	109.0	125.8	142.6	153.8
97.5°	89.5	103.4	117.4	134.2	142.6
100°	86.7	97.8	111.8	125.8	131.4
102.5°	83.9	92.3	106.2	117.4	125.8
105°	81.1	89.5	100.6	111.8	117.4
107.5°	75.5	83.9	95.1	106.2	111.8
110°	72.7	78.3	89.5	97.8	106.2



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	69.9	75.5	83.9	92.3	97.8
115°	64.3	69.9	78.3	83.9	89.5
117.5°	61.5	64.3	72.7	75.5	81.1
120°	55.9	58.7	67.1	69.9	72.7
122.5°	50.3	53.1	61.5	61.5	67.1
125°	47.5	47.5	55.9	55.9	58.7
127.5°	44.7	44.7	50.3	50.3	53.1
130°	39.1	39.1	44.7	44.7	44.7
132.5°	36.3	33.5	39.1	39.1	41.9
135°	33.5	30.8	33.5	33.5	36.3
137.5°	28.0	28.0	30.8	28.0	30.8
140°	25.2	22.4	25.2	25.2	28.0
142.5°	22.4	19.6	22.4	19.6	22.4
145°	19.6	16.8	16.8	16.8	19.6
147.5°	16.8	14.0	14.0	14.0	16.8
150°	14.0	11.2	11.2	11.2	14.0
152.5°	11.2	8.4	5.6	8.4	11.2
155°	8.4	8.4	2.8	5.6	8.4
157.5°	5.6	5.6	0.0	2.8	5.6
160°	2.8	2.8	0.0	2.8	2.8
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)