

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: P384695

Luminaire Tested: **24ID-55-L835-CFD3**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P384695  
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-L835-CFD3  
Description: 2X4 IN DEPTH TROFFER WITH 3INCH DROP CUBE LENS

Light Source: -  
Ballast/Driver: -

**Summary**

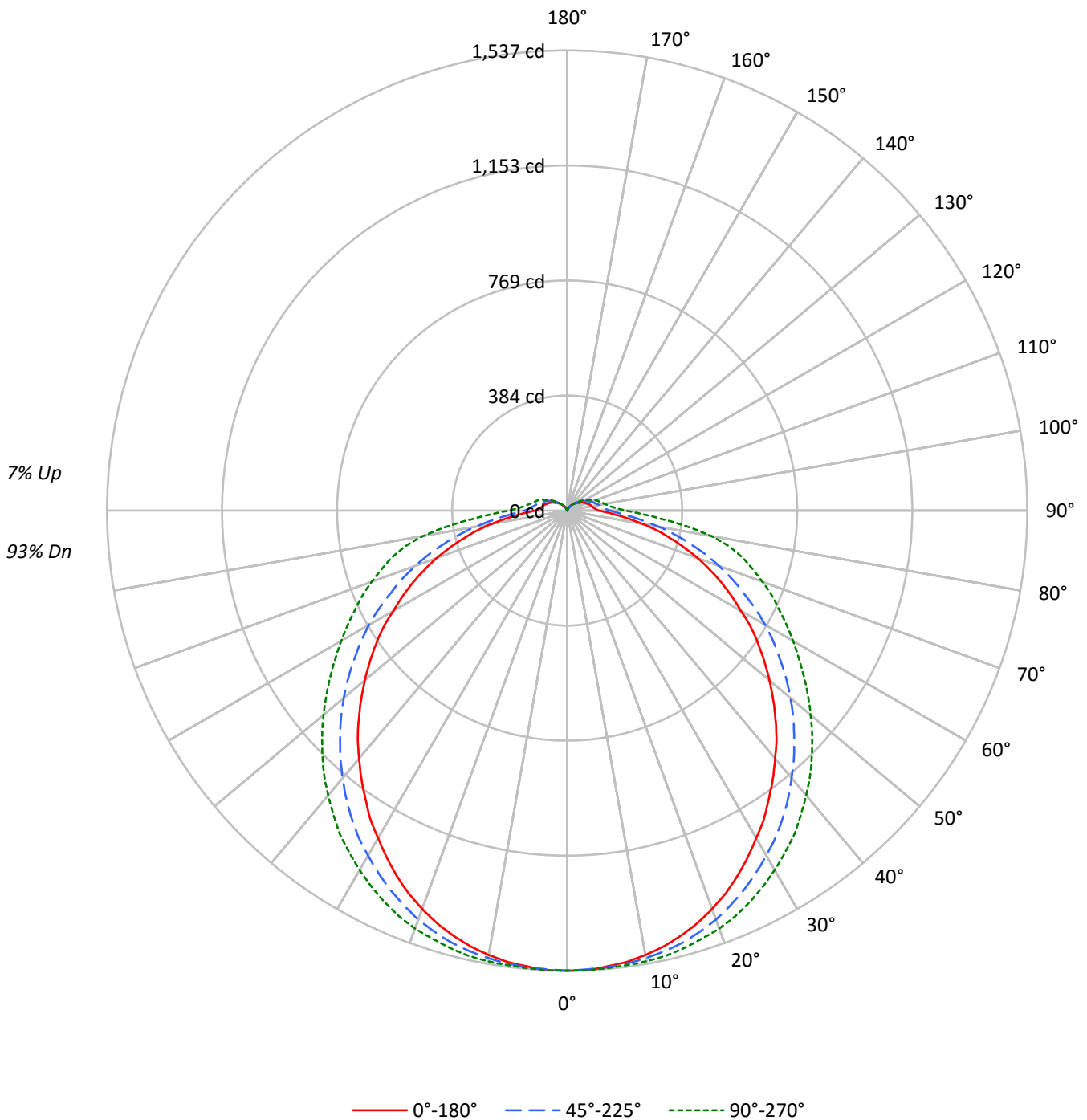
Lumens per Lamp: N/A  
Luminaire Lumens: 5377.4 lumens  
Efficiency: N/A  
Efficacy: 107.1 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.41  
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.25')  
CIE Type: Direct

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°	2068	2068	2068
5°	2053	2045	2049
10°	2037	2026	2043
15°	2013	2009	2039
20°	1982	1985	2035
25°	1942	1953	2024
30°	1894	1920	2009
35°	1848	1886	1997
40°	1804	1844	1974
45°	1763	1802	1955
50°	1719	1760	1935
55°	1681	1714	1922
60°	1628	1673	1928
65°	1596	1609	1959
70°	1558	1554	2034
75°	1504	1474	2149
80°	1458	1376	2213
85°	1473	1267	1995



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	145.7	2.7
10°-20°	421.1	7.8
20°-30°	643.3	12.0
30°-40°	783.1	14.6
40°-50°	827.7	15.4
50°-60°	781.3	14.5
60°-70°	657.3	12.2
70°-80°	473.9	8.8
80°-90°	249.9	4.6
90°-100°	133.8	2.5
100°-110°	101.6	1.9
110°-120°	73.7	1.4
120°-130°	46.3	0.9
130°-140°	25.0	0.5
140°-150°	10.9	0.2
150°-160°	2.9	0.1
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	1210.1	22.5
0°-40°	1993.1	37.1
0°-60°	3602.1	67.0
0°-90°	4983.2	92.7
90°-120°	309.1	5.7
90°-150°	391.2	7.3
90°-180°	394.0	7.3
0°-180°	5377.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1537	1537	1537	1537	1537	
5°	1529	1529	1531	1531	1534	145
15°	1470	1475	1494	1504	1512	415
25°	1346	1362	1397	1429	1443	620
35°	1175	1201	1255	1303	1322	736
45°	984	1014	1073	1132	1156	760
55°	780	815	869	933	965	697
65°	568	601	649	729	780	562
75°	357	386	424	507	606	379
85°	164	185	206	258	314	153
90°	105	123	142	169	193	60
95°	91	105	121	137	148	73
105°	78	86	96	107	113	81
115°	62	67	75	80	86	62
125°	46	46	54	54	56	41
135°	32	30	32	32	35	24
145°	19	16	16	16	19	12
155°	8	8	3	5	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°	1536.7	1536.7	1536.7	1536.7	1536.7
2.5°	1536.7	1534.0	1534.0	1534.0	1536.7
5°	1528.6	1528.6	1531.3	1531.3	1534.0
7.5°	1520.6	1520.6	1525.9	1528.6	1531.3
10°	1507.2	1509.9	1517.9	1523.3	1528.6
12.5°	1491.1	1493.8	1507.2	1517.9	1523.3
15°	1469.6	1475.0	1493.8	1504.5	1512.5
17.5°	1445.5	1453.5	1475.0	1491.1	1499.1
20°	1416.0	1426.7	1453.5	1475.0	1485.7
22.5°	1383.8	1394.5	1426.7	1453.5	1466.9
25°	1346.3	1362.4	1397.2	1429.4	1442.8
27.5°	1306.0	1324.8	1365.0	1402.6	1416.0
30°	1263.1	1284.6	1330.2	1370.4	1386.5
32.5°	1222.9	1244.4	1295.3	1338.2	1354.3
35°	1174.6	1201.4	1255.1	1303.4	1322.1
37.5°	1129.0	1155.9	1212.2	1263.1	1281.9
40°	1080.8	1107.6	1166.6	1222.9	1241.7
42.5°	1035.2	1062.0	1121.0	1180.0	1201.4
45°	984.2	1013.7	1072.7	1131.7	1155.9
47.5°	933.3	962.8	1024.4	1086.1	1110.3
50°	882.3	914.5	973.5	1035.2	1062.0
52.5°	831.4	863.5	922.5	986.9	1013.7
55°	780.4	815.3	868.9	933.3	965.4
57.5°	729.4	764.3	817.9	885.0	917.2
60°	670.4	710.7	764.3	834.0	871.6
62.5°	619.5	654.4	708.0	780.4	826.0
65°	568.5	600.7	649.0	729.4	780.4
67.5°	514.9	549.8	595.4	670.4	740.2
70°	464.0	493.5	539.0	616.8	694.6
72.5°	410.3	439.8	482.7	563.2	649.0
75°	356.7	386.2	423.7	506.9	606.1
77.5°	308.4	332.5	367.4	447.9	555.1
80°	254.8	278.9	311.1	383.5	488.1
82.5°	206.5	228.0	254.8	319.1	402.3
85°	163.6	185.0	206.5	257.5	313.8
87.5°	131.4	147.5	169.0	206.5	244.0
90°	104.6	123.4	142.1	169.0	193.1
92.5°	96.5	112.6	128.7	150.2	166.3
95°	91.2	104.6	120.7	136.8	147.5
97.5°	85.8	99.2	112.6	128.7	136.8
100°	83.1	93.9	107.3	120.7	126.0
102.5°	80.5	88.5	101.9	112.6	120.7
105°	77.8	85.8	96.5	107.3	112.6
107.5°	72.4	80.5	91.2	101.9	107.3
110°	69.7	75.1	85.8	93.9	101.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	67.0	72.4	80.5	88.5	93.9
115°	61.7	67.0	75.1	80.5	85.8
117.5°	59.0	61.7	69.7	72.4	77.8
120°	53.6	56.3	64.4	67.0	69.7
122.5°	48.3	51.0	59.0	59.0	64.4
125°	45.6	45.6	53.6	53.6	56.3
127.5°	42.9	42.9	48.3	48.3	51.0
130°	37.5	37.5	42.9	42.9	42.9
132.5°	34.9	32.2	37.5	37.5	40.2
135°	32.2	29.5	32.2	32.2	34.9
137.5°	26.8	26.8	29.5	26.8	29.5
140°	24.1	21.5	24.1	24.1	26.8
142.5°	21.5	18.8	21.5	18.8	21.5
145°	18.8	16.1	16.1	16.1	18.8
147.5°	16.1	13.4	13.4	13.4	16.1
150°	13.4	10.7	10.7	10.7	13.4
152.5°	10.7	8.0	5.4	8.0	10.7
155°	8.0	8.0	2.7	5.4	8.0
157.5°	5.4	5.4	0.0	2.7	5.4
160°	2.7	2.7	0.0	2.7	2.7
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)