

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: P383737

Luminaire Tested: **14ID-40-L850-CFR1**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383737  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-65)  
Test Lab: INNOVATION CENTER (G2)  
Issue Date: 2/25/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 14ID-40-L850-CFR1  
Description: 1X4 IN DEPTH TROFFER WITH 1INCH RECESSED COFFER LENS

Light Source: -  
Ballast/Driver: -

**Summary**

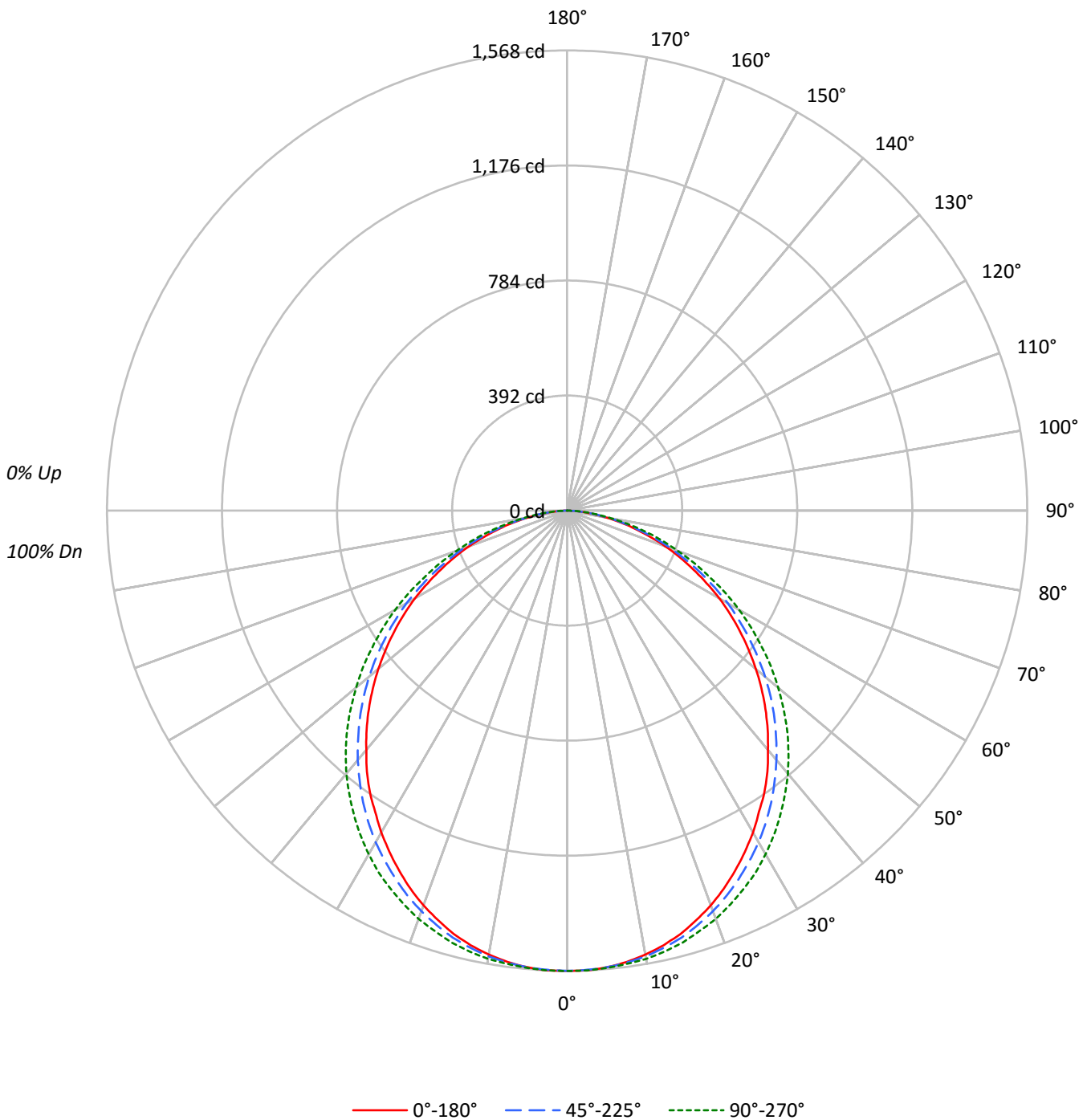
Lumens per Lamp: N/A  
Luminaire Lumens: 4259.9 lumens  
Efficiency: N/A  
Efficacy: 127.5 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.35  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 33.4  
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	81	76	82	78	74	79	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	67	63	70	66	62	60
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46	44
6	71	57	48	42	69	56	48	42	55	47	42	53	46	41	51	45	41	39
7	65	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	38	33	43	37	32	31
9	57	44	35	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

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

	0°	45°	90°
0°	4221	4221	4221
5°	4220	4220	4225
10°	4198	4216	4239
15°	4161	4197	4244
20°	4099	4160	4240
25°	4021	4110	4225
30°	3935	4055	4201
35°	3850	3984	4160
40°	3741	3899	4110
45°	3637	3800	4037
50°	3517	3687	3929
55°	3378	3549	3800
60°	3229	3402	3644
65°	3016	3193	3411
70°	2799	2950	3153
75°	2495	2629	2852
80°	2092	2191	2391
85°	1587	1587	1788



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	148.5	3.5
10°-20°	424.8	10.0
20°-30°	638.7	15.0
30°-40°	759.8	17.8
40°-50°	773.1	18.1
50°-60°	680.4	16.0
60°-70°	499.1	11.7
70°-80°	270.9	6.4
80°-90°	64.6	1.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1211.9	28.4
0°-40°	1971.7	46.3
0°-60°	3425.3	80.4
0°-90°	4259.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4259.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1568	1568	1568	1568	1568	
5°	1562	1560	1562	1562	1564	148
15°	1494	1496	1506	1515	1524	421
25°	1354	1363	1384	1408	1423	624
35°	1172	1181	1213	1249	1266	732
45°	956	964	998	1041	1061	737
55°	720	731	756	793	810	644
65°	474	482	501	523	536	471
75°	240	244	253	266	274	255
85°	51	51	51	56	58	62
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1568.5	1568.5	1568.5	1568.5	1568.5
2.5°	1568.5	1566.4	1566.4	1566.4	1568.5
5°	1562.1	1560.0	1562.1	1562.1	1564.2
7.5°	1551.4	1549.2	1553.5	1555.7	1557.8
10°	1536.4	1536.4	1542.8	1547.1	1551.4
12.5°	1517.1	1519.2	1525.7	1532.1	1538.5
15°	1493.5	1495.7	1506.4	1515.0	1523.5
17.5°	1463.5	1467.8	1480.7	1493.5	1502.1
20°	1431.4	1437.8	1452.8	1470.0	1480.7
22.5°	1395.0	1403.5	1420.7	1442.1	1452.8
25°	1354.3	1362.8	1384.2	1407.8	1422.8
27.5°	1311.4	1322.1	1345.7	1373.5	1390.7
30°	1266.4	1277.1	1305.0	1335.0	1352.1
32.5°	1217.1	1230.0	1260.0	1294.3	1311.4
35°	1172.1	1180.7	1212.8	1249.3	1266.4
37.5°	1120.7	1131.4	1161.4	1200.0	1219.3
40°	1065.0	1075.7	1110.0	1148.5	1170.0
42.5°	1011.4	1020.0	1054.3	1097.1	1116.4
45°	955.7	964.3	998.5	1041.4	1060.7
47.5°	897.8	908.5	940.7	981.4	1000.7
50°	840.0	848.5	880.7	919.3	938.5
52.5°	780.0	788.6	818.6	857.1	876.4
55°	720.0	730.7	756.4	792.8	810.0
57.5°	660.0	670.7	694.3	728.6	743.6
60°	600.0	608.6	632.1	662.1	677.1
62.5°	535.7	542.1	565.7	595.7	608.6
65°	473.6	482.1	501.4	522.8	535.7
67.5°	415.7	420.0	437.1	460.7	469.3
70°	355.7	360.0	375.0	394.3	400.7
72.5°	295.7	302.1	312.8	330.0	338.6
75°	240.0	244.3	252.9	265.7	274.3
77.5°	186.4	188.6	195.0	205.7	212.1
80°	135.0	137.1	141.4	150.0	154.3
82.5°	90.0	92.1	94.3	98.6	102.9
85°	51.4	51.4	51.4	55.7	57.9
87.5°	19.3	17.1	17.1	17.1	17.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)