

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: P383744

Luminaire Tested: **14ID-50-L840-CFR1**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383744  
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-50-L840-CFR1  
Description: 1X4 IN DEPTH TROFFER WITH 1INCH RECESSED COFFER LENS

Light Source: -  
Ballast/Driver: -

**Summary**

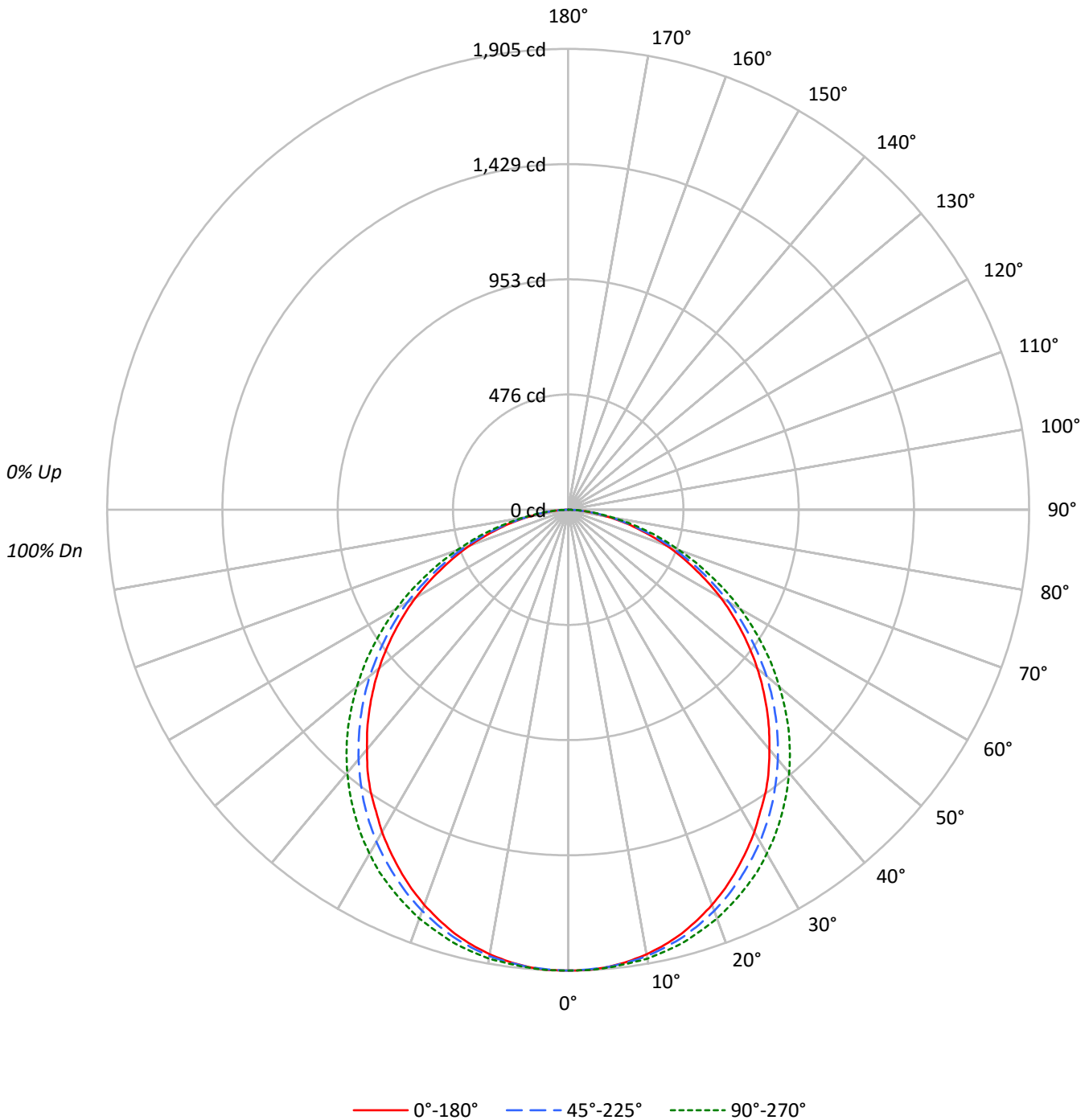
Lumens per Lamp: N/A  
Luminaire Lumens: 5173.9 lumens  
Efficiency: N/A  
Efficacy: 120.0 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.35  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 43.1  
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°	5127	5127	5127
5°	5125	5125	5132
10°	5099	5120	5149
15°	5054	5097	5155
20°	4979	5053	5150
25°	4884	4992	5131
30°	4779	4925	5103
35°	4677	4839	5053
40°	4544	4736	4992
45°	4417	4615	4903
50°	4271	4478	4772
55°	4103	4310	4616
60°	3922	4132	4426
65°	3663	3878	4143
70°	3399	3583	3829
75°	3031	3193	3463
80°	2541	2662	2904
85°	1930	1930	2171



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	180.3	3.5
10°-20°	515.9	10.0
20°-30°	775.7	15.0
30°-40°	922.8	17.8
40°-50°	939.0	18.1
50°-60°	826.4	16.0
60°-70°	606.2	11.7
70°-80°	329.0	6.4
80°-90°	78.5	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°	1472.0	28.4
0°-40°	2394.8	46.3
0°-60°	4160.2	80.4
0°-90°	5173.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5173.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1905	1905	1905	1905	1905	
5°	1897	1895	1897	1897	1900	180
15°	1814	1817	1830	1840	1850	511
25°	1645	1655	1681	1710	1728	758
35°	1424	1434	1473	1517	1538	889
45°	1161	1171	1213	1265	1288	895
55°	874	888	919	963	984	782
65°	575	586	609	635	651	572
75°	292	297	307	323	333	310
85°	62	62	62	68	70	75
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1905.1	1905.1	1905.1	1905.1	1905.1
2.5°	1905.1	1902.5	1902.5	1902.5	1905.1
5°	1897.3	1894.7	1897.3	1897.3	1899.9
7.5°	1884.3	1881.6	1886.9	1889.5	1892.1
10°	1866.0	1866.0	1873.8	1879.0	1884.3
12.5°	1842.6	1845.2	1853.0	1860.8	1868.6
15°	1814.0	1816.6	1829.6	1840.0	1850.4
17.5°	1777.5	1782.8	1798.4	1814.0	1824.4
20°	1738.5	1746.3	1764.5	1785.4	1798.4
22.5°	1694.3	1704.7	1725.5	1751.5	1764.5
25°	1644.8	1655.2	1681.3	1709.9	1728.1
27.5°	1592.8	1605.8	1634.4	1668.2	1689.1
30°	1538.1	1551.1	1585.0	1621.4	1642.2
32.5°	1478.3	1493.9	1530.3	1571.9	1592.8
35°	1423.6	1434.0	1473.0	1517.3	1538.1
37.5°	1361.1	1374.2	1410.6	1457.4	1480.9
40°	1293.5	1306.5	1348.1	1395.0	1421.0
42.5°	1228.4	1238.8	1280.5	1332.5	1355.9
45°	1160.7	1171.2	1212.8	1264.8	1288.3
47.5°	1090.5	1103.5	1142.5	1192.0	1215.4
50°	1020.2	1030.6	1069.7	1116.5	1139.9
52.5°	947.3	957.7	994.2	1041.0	1064.4
55°	874.5	887.5	918.7	962.9	983.8
57.5°	801.6	814.6	843.2	884.9	903.1
60°	728.7	739.1	767.8	804.2	822.4
62.5°	650.6	658.4	687.1	723.5	739.1
65°	575.2	585.6	609.0	635.0	650.6
67.5°	504.9	510.1	530.9	559.6	570.0
70°	432.0	437.2	455.4	478.9	486.7
72.5°	359.2	367.0	380.0	400.8	411.2
75°	291.5	296.7	307.1	322.7	333.1
77.5°	226.4	229.0	236.8	249.8	257.7
80°	164.0	166.6	171.8	182.2	187.4
82.5°	109.3	111.9	114.5	119.7	124.9
85°	62.5	62.5	62.5	67.7	70.3
87.5°	23.4	20.8	20.8	20.8	20.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)