

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: P385256

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

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P385256  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-73)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 2/25/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 14ID-50-L840-CNV  
Description: 1X4 IN DEPTH TROFFER WITH CONVEX LENS

Light Source: -  
Ballast/Driver: -

**Summary**

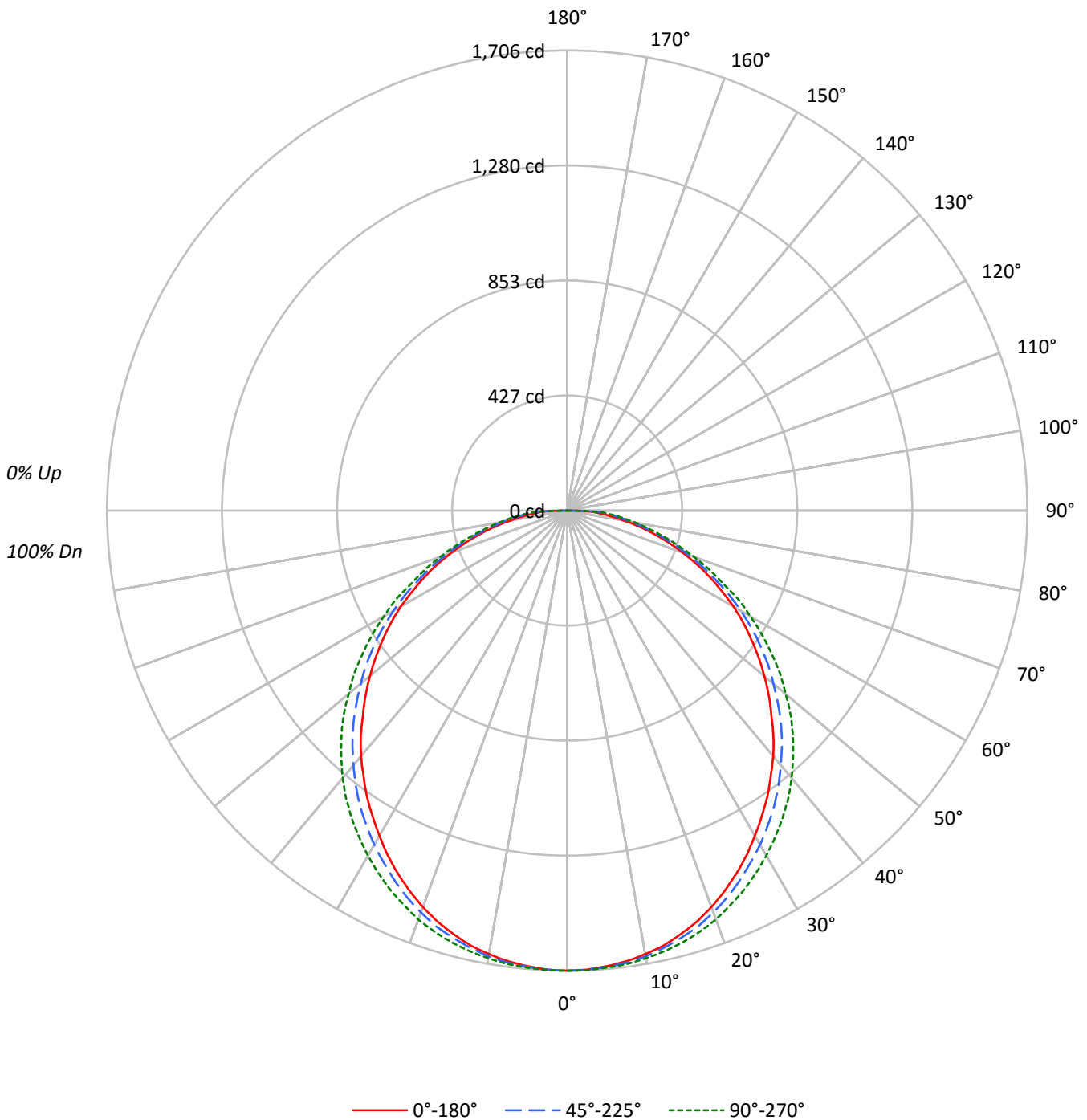
Lumens per Lamp: N/A  
Luminaire Lumens: 4948.0 lumens  
Efficiency: N/A  
Efficacy: 114.8 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.28 / 1.37  
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.17')  
CIE Type: Direct

Input Watts (W): 43.1  
Input Voltage (V): NR  
Input Current (Ain): 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



TEST NUMBER: P385256  
CATALOG NUMBER: 14ID-50-L840-CNV

### Luminous Intensity Polar Plot





TEST NUMBER: P385256

CATALOG NUMBER: 14ID-50-L840-CNV

**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	108	103	99	94	105	101	97	93	96	93	90		93	90	87		89	87	85	82
2	98	90	82	77	95	88	81	76	84	79	74		81	76	72		78	74	70	68
3	89	78	70	63	87	77	69	63	74	67	62		71	65	61		68	64	60	57
4	82	69	60	54	79	68	60	53	66	58	52		63	57	52		61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45		57	50	45		55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40		51	44	39		50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35		47	40	35		45	39	35	33
8	60	46	38	32	58	45	37	32	44	37	31		43	36	31		42	36	31	29
9	56	42	34	28	54	42	34	28	41	33	28		40	33	28		38	32	28	26
10	52	39	31	26	51	39	31	26	38	30	26		37	30	25		36	30	25	24

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

	0°	45°	90°
0°	4591	4591	4591
5°	4564	4529	4528
10°	4530	4468	4474
15°	4480	4393	4419
20°	4413	4308	4356
25°	4324	4204	4275
30°	4224	4097	4187
35°	4131	3984	4095
40°	4035	3853	3989
45°	3911	3721	3861
50°	3807	3555	3694
55°	3692	3391	3510
60°	3578	3188	3278
65°	3414	2939	2981
70°	3215	2666	2694
75°	2986	2365	2359
80°	2677	2042	2029
85°	2529	1776	1723



TEST NUMBER: P385256

CATALOG NUMBER: 14ID-50-L840-CNV

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	161.4	3.3
10°-20°	462.6	9.3
20°-30°	698.1	14.1
30°-40°	837.9	16.9
40°-50°	867.1	17.5
50°-60°	785.6	15.9
60°-70°	605.2	12.2
70°-80°	374.5	7.6
80°-90°	155.6	3.1
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°	1322.1	26.7
0°-40°	2160.0	43.7
0°-60°	3812.7	77.1
0°-90°	4948.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4948.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1706	1706	1706	1706	1706	
5°	1696	1696	1698	1698	1701	161
15°	1626	1629	1639	1649	1657	459
25°	1485	1490	1513	1539	1552	684
35°	1294	1305	1338	1374	1392	809
45°	1070	1086	1122	1163	1184	828
55°	834	847	875	914	926	746
65°	584	589	607	633	636	578
75°	332	340	352	368	368	352
85°	121	134	154	165	162	131
90°	0	0	0	0	0	



TEST NUMBER: P385256

CATALOG NUMBER: 14ID-50-L840-CNV

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1706.0	1706.0	1706.0	1706.0	1706.0
2.5°	1703.4	1703.4	1703.4	1703.4	1706.0
5°	1695.7	1695.7	1698.3	1698.3	1700.8
7.5°	1685.4	1685.4	1690.5	1690.5	1695.7
10°	1669.9	1672.5	1677.7	1680.2	1685.4
12.5°	1651.9	1651.9	1659.7	1667.4	1672.5
15°	1626.2	1628.8	1639.1	1649.4	1657.1
17.5°	1597.9	1600.5	1615.9	1626.2	1636.5
20°	1564.4	1567.0	1585.0	1600.5	1613.3
22.5°	1525.9	1531.0	1551.6	1572.2	1582.5
25°	1484.7	1489.8	1513.0	1538.7	1551.6
27.5°	1440.9	1448.7	1471.8	1500.1	1515.6
30°	1392.1	1402.3	1430.6	1461.5	1477.0
32.5°	1343.2	1353.5	1384.3	1420.4	1435.8
35°	1294.3	1304.6	1338.0	1374.0	1392.1
37.5°	1240.2	1250.5	1286.6	1325.2	1345.7
40°	1188.8	1199.1	1232.5	1276.3	1294.3
42.5°	1132.2	1142.5	1178.5	1219.7	1240.2
45°	1070.4	1085.9	1121.9	1163.0	1183.6
47.5°	1013.8	1026.7	1060.1	1103.9	1124.4
50°	954.6	967.5	998.4	1042.1	1057.5
52.5°	895.4	908.3	939.2	980.4	995.8
55°	833.7	846.6	874.9	913.5	926.3
57.5°	774.5	784.8	810.5	846.6	856.8
60°	712.8	723.0	743.6	777.1	784.8
62.5°	645.8	653.6	676.7	707.6	717.9
65°	584.1	589.2	607.3	633.0	635.6
67.5°	519.8	524.9	542.9	560.9	568.7
70°	455.4	463.2	476.0	494.0	499.2
72.5°	393.7	401.4	414.3	429.7	432.3
75°	331.9	339.7	352.5	368.0	368.0
77.5°	272.7	280.5	295.9	308.8	308.8
80°	213.6	226.4	241.9	254.7	254.7
82.5°	164.7	175.0	195.6	205.8	205.8
85°	120.9	133.8	154.4	164.7	162.1
87.5°	87.5	100.4	118.4	126.1	123.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)