

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: P384084

Luminaire Tested: **14ID-55-L840-CFD1**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P384084  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-67)  
Test Lab: INNOVATION CENTER (G2)  
Issue Date: 2/25/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 14ID-55-L840-CFD1  
Description: 1X4 IN DEPTH TROFFER WITH 1INCH DROP CUBE LENS

Light Source: -  
Ballast/Driver: -

**Summary**

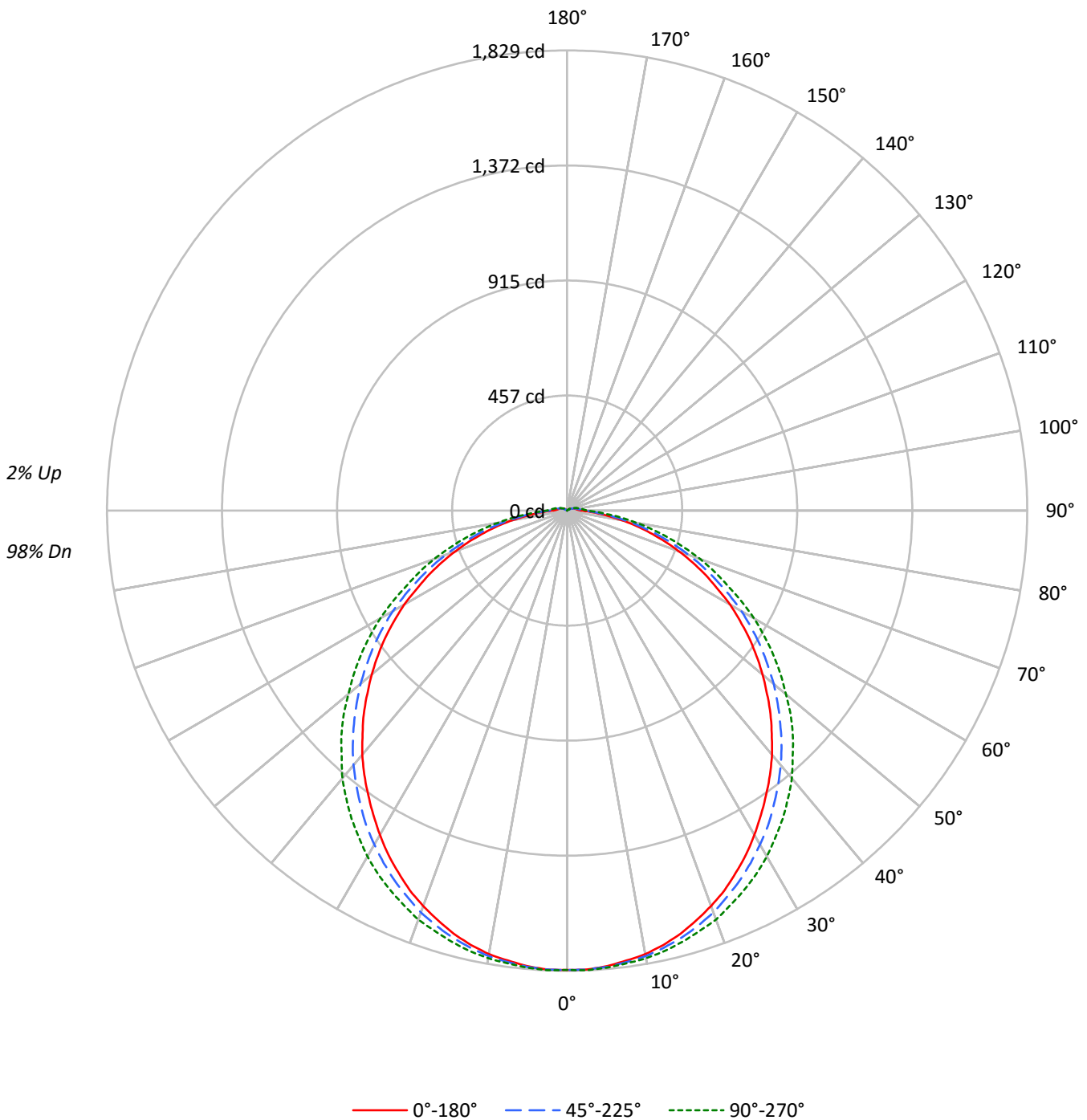
Lumens per Lamp: N/A  
Luminaire Lumens: 5407.8 lumens  
Efficiency: N/A  
Efficacy: 112.2 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.37  
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.08')  
CIE Type: Direct

Input Watts (W): 48.2  
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



TEST NUMBER: P384084  
CATALOG NUMBER: 14ID-55-L840-CFD1

### Luminous Intensity Polar Plot





TEST NUMBER: P384084

CATALOG NUMBER: 14ID-55-L840-CFD1

**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	110	110	110	105	105	105	100	100	100	98
1	108	103	98	94	105	100	96	92	96	92	89	91	88	86	87	85	83	81
2	98	89	82	76	95	87	81	75	83	78	73	80	75	71	76	73	69	67
3	89	78	70	63	86	76	69	63	73	67	61	70	64	60	67	62	58	56
4	81	69	60	53	79	68	59	53	65	58	52	62	56	51	60	55	50	48
5	75	62	53	46	73	61	52	46	58	51	45	56	49	44	54	48	44	41
6	69	56	47	40	67	55	46	40	52	45	39	51	44	39	49	43	38	36
7	64	50	42	35	62	49	41	35	48	40	35	46	39	34	45	39	34	32
8	60	46	37	32	58	45	37	31	44	36	31	42	36	31	41	35	30	28
9	56	42	34	28	54	41	34	28	40	33	28	39	32	28	38	32	27	26
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	35	29	25	23

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

	0°	45°	90°
0°	4913	4913	4913
5°	4901	4886	4889
10°	4874	4851	4865
15°	4823	4801	4834
20°	4753	4741	4808
25°	4668	4659	4757
30°	4571	4568	4706
35°	4465	4471	4638
40°	4373	4372	4564
45°	4262	4247	4459
50°	4144	4126	4322
55°	4022	3980	4196
60°	3888	3821	4036
65°	3710	3588	3792
70°	3510	3355	3598
75°	3280	3041	3305
80°	3039	2667	2943
85°	2940	2299	2515



TEST NUMBER: P384084

CATALOG NUMBER: 14ID-55-L840-CFD1

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	172.9	3.2
10°-20°	495.7	9.2
20°-30°	748.4	13.8
30°-40°	896.7	16.6
40°-50°	927.1	17.1
50°-60°	839.6	15.5
60°-70°	649.7	12.0
70°-80°	399.1	7.4
80°-90°	158.6	2.9
90°-100°	57.8	1.1
100°-110°	35.6	0.7
110°-120°	18.3	0.3
120°-130°	7.8	0.1
130°-140°	0.5	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°	1417.1	26.2
0°-40°	2313.8	42.8
0°-60°	4080.5	75.5
0°-90°	5287.8	97.8
90°-120°	111.7	2.1
90°-150°	120.0	2.2
90°-180°	120.0	2.2
0°-180°	5407.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1826	1826	1826	1826	1826	
5°	1818	1818	1820	1820	1823	173
15°	1741	1744	1757	1768	1774	491
25°	1587	1598	1623	1650	1664	731
35°	1379	1396	1431	1470	1494	863
45°	1143	1157	1198	1247	1269	881
55°	883	902	938	979	1001	789
65°	609	622	652	685	702	602
75°	340	356	373	398	417	362
85°	118	126	137	151	159	117
90°	55	63	68	77	82	32
95°	41	47	52	58	63	33
105°	30	30	33	36	38	32
115°	19	16	16	19	22	19
125°	11	8	6	8	11	10
135°	0	0	0	0	0	1
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P384084

CATALOG NUMBER: 14ID-55-L840-CFD1

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1825.9	1825.9	1825.9	1825.9	1825.9
2.5°	1825.9	1823.2	1825.9	1825.9	1828.7
5°	1817.7	1817.7	1820.4	1820.4	1823.2
7.5°	1804.0	1804.0	1809.5	1812.2	1815.0
10°	1790.3	1790.3	1798.5	1801.2	1806.7
12.5°	1768.3	1771.1	1779.3	1787.5	1793.0
15°	1740.9	1743.7	1757.4	1768.3	1773.8
17.5°	1708.0	1713.5	1730.0	1746.4	1751.9
20°	1672.4	1680.6	1699.8	1719.0	1730.0
22.5°	1634.0	1639.5	1661.4	1686.1	1697.1
25°	1587.4	1598.4	1623.0	1650.5	1664.2
27.5°	1540.8	1551.8	1579.2	1612.1	1628.5
30°	1488.7	1499.7	1532.6	1568.2	1587.4
32.5°	1433.9	1447.6	1486.0	1521.6	1540.8
35°	1379.0	1395.5	1431.1	1469.5	1494.2
37.5°	1324.2	1337.9	1376.3	1417.4	1442.1
40°	1266.6	1280.3	1321.5	1362.6	1390.0
42.5°	1203.6	1220.0	1261.1	1305.0	1326.9
45°	1143.3	1157.0	1198.1	1247.4	1269.4
47.5°	1077.5	1096.6	1135.0	1181.6	1206.3
50°	1014.4	1030.9	1072.0	1115.8	1135.0
52.5°	948.6	965.1	1003.4	1047.3	1069.2
55°	882.8	902.0	937.6	978.8	1000.7
57.5°	814.3	833.5	869.1	904.7	929.4
60°	748.5	767.7	800.6	836.2	858.1
62.5°	674.4	690.9	726.5	764.9	781.4
65°	608.6	622.3	652.5	685.4	701.9
67.5°	540.1	556.5	584.0	614.1	633.3
70°	471.6	490.8	512.7	540.1	562.0
72.5°	405.8	422.2	441.4	468.8	488.0
75°	340.0	356.4	372.9	397.5	416.7
77.5°	282.4	290.6	307.1	329.0	348.2
80°	219.3	230.3	244.0	265.9	279.6
82.5°	164.5	175.5	186.4	202.9	216.6
85°	117.9	126.1	137.1	150.8	159.0
87.5°	79.5	87.7	96.0	106.9	115.1
90°	54.8	63.1	68.5	76.8	82.2
92.5°	46.6	52.1	57.6	63.1	68.5
95°	41.1	46.6	52.1	57.6	63.1
97.5°	38.4	41.1	46.6	52.1	54.8
100°	35.6	38.4	41.1	46.6	49.3
102.5°	32.9	32.9	38.4	41.1	43.9
105°	30.2	30.2	32.9	35.6	38.4
107.5°	27.4	27.4	30.2	30.2	35.6
110°	24.7	21.9	24.7	24.7	30.2



TEST NUMBER: P384084

CATALOG NUMBER: 14ID-55-L840-CFD1

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	21.9	19.2	21.9	21.9	24.7
115°	19.2	16.4	16.4	19.2	21.9
117.5°	16.4	13.7	13.7	13.7	19.2
120°	16.4	13.7	11.0	11.0	16.4
122.5°	13.7	11.0	8.2	11.0	13.7
125°	11.0	8.2	5.5	8.2	11.0
127.5°	8.2	8.2	2.7	5.5	8.2
130°	8.2	5.5	2.7	5.5	5.5
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
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)