

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: P384252

Luminaire Tested: **14ID-55-L840-CFD2**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384252
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-68)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 2/25/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 14ID-55-L840-CFD2
Description: 1X4 IN DEPTH TROFFER WITH 2INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

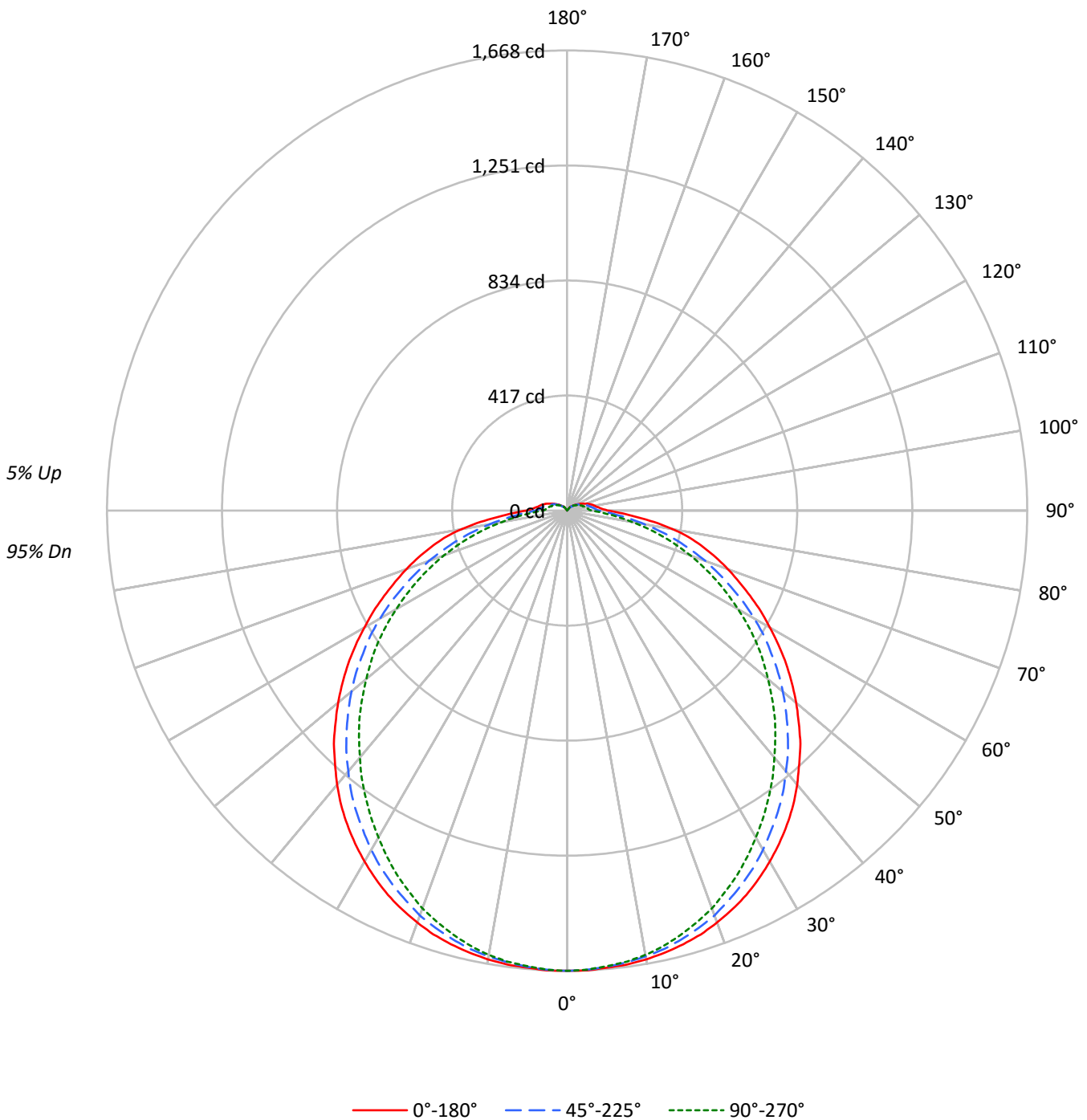
Lumens per Lamp: N/A
Luminaire Lumens: 5410.7 lumens
Efficiency: N/A
Efficacy: 112.3 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.22 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.17')
CIE Type: Direct

Input Watts (W): 48.2
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



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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	118	118	118	118	114	114	114	114	108	108	108	102	102	102	97	97	97	95
1	106	101	96	92	103	98	94	90	93	90	86	88	85	83	84	81	79	77
2	96	87	80	74	93	85	78	73	81	75	70	77	72	68	73	69	66	63
3	87	76	68	61	84	74	67	60	71	64	58	67	62	57	64	59	55	53
4	80	68	58	51	77	66	57	51	63	55	50	60	53	48	57	51	47	45
5	73	60	51	44	71	59	50	44	56	48	43	53	47	42	51	45	41	38
6	68	54	45	38	65	53	44	38	50	43	37	48	42	36	46	40	36	33
7	63	49	40	34	61	48	39	33	46	38	33	44	37	32	42	36	32	30
8	58	45	36	30	56	44	35	30	42	35	29	40	34	29	39	33	28	26
9	54	41	33	27	53	40	32	27	39	31	26	37	31	26	36	30	25	24
10	51	38	30	24	50	37	29	24	36	29	24	34	28	23	33	27	23	21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4489	4489	4489
5°	4475	4427	4412
10°	4481	4370	4341
15°	4483	4310	4245
20°	4482	4245	4143
25°	4477	4157	4017
30°	4457	4066	3877
35°	4436	3968	3743
40°	4402	3858	3601
45°	4369	3749	3473
50°	4323	3636	3318
55°	4292	3503	3176
60°	4262	3360	2987
65°	4277	3171	2792
70°	4376	2982	2564
75°	4594	2729	2275
80°	4894	2398	1914
85°	5139	2073	1567



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.9	2.9
10°-20°	454.0	8.4
20°-30°	689.6	12.7
30°-40°	832.9	15.4
40°-50°	871.8	16.1
50°-60°	808.9	15.0
60°-70°	655.2	12.1
70°-80°	442.2	8.2
80°-90°	213.6	3.9
90°-100°	107.5	2.0
100°-110°	78.1	1.4
110°-120°	52.2	1.0
120°-130°	30.3	0.6
130°-140°	15.3	0.3
140°-150°	1.2	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1301.5	24.1
0°-40°	2134.4	39.4
0°-60°	3815.1	70.5
0°-90°	5126.2	94.7
90°-120°	237.8	4.4
90°-150°	284.5	5.3
90°-180°	284.0	5.2
0°-180°	5410.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1668	1668	1668	1668	1668	
5°	1663	1660	1660	1657	1657	158
15°	1627	1619	1608	1597	1592	460
25°	1537	1524	1496	1469	1458	708
35°	1390	1371	1332	1291	1272	869
45°	1196	1174	1130	1084	1065	921
55°	969	947	904	860	838	866
65°	732	704	655	620	595	726
75°	511	459	407	377	355	538
85°	246	213	180	164	147	232
90°	147	134	115	104	87	84
95°	117	109	98	87	76	92
105°	87	82	74	66	60	93
115°	60	55	55	46	46	60
125°	38	33	36	30	33	34
135°	22	19	19	19	22	17
145°	0	0	0	0	0	1
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



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1668.2	1668.2	1668.2	1668.2	1668.2
2.5°	1668.2	1665.5	1665.5	1665.5	1665.5
5°	1662.8	1660.0	1660.0	1657.3	1657.3
7.5°	1660.0	1654.6	1651.8	1649.1	1649.1
10°	1651.8	1646.4	1640.9	1635.5	1635.5
12.5°	1640.9	1635.5	1627.3	1616.3	1616.3
15°	1627.3	1619.1	1608.2	1597.2	1591.8
17.5°	1610.9	1602.7	1586.3	1569.9	1564.5
20°	1589.0	1578.1	1561.7	1539.9	1534.4
22.5°	1564.5	1553.5	1529.0	1507.1	1496.2
25°	1537.2	1523.5	1496.2	1468.9	1458.0
27.5°	1504.4	1490.8	1460.7	1428.0	1414.3
30°	1468.9	1452.5	1419.8	1384.3	1367.9
32.5°	1430.7	1411.6	1376.1	1337.9	1321.5
35°	1389.7	1370.6	1332.4	1291.4	1272.3
37.5°	1346.0	1326.9	1286.0	1242.3	1223.2
40°	1296.9	1277.8	1234.1	1190.4	1168.6
42.5°	1245.0	1228.6	1185.0	1138.5	1116.7
45°	1195.9	1174.0	1130.3	1083.9	1064.8
47.5°	1138.5	1122.2	1075.7	1029.3	1007.5
50°	1083.9	1064.8	1021.1	974.7	950.1
52.5°	1026.6	1010.2	963.8	917.4	895.5
55°	969.3	947.4	903.7	860.0	838.2
57.5°	909.2	890.1	846.4	805.4	778.1
60°	849.1	830.0	783.6	745.4	715.3
62.5°	791.8	769.9	720.8	679.8	655.3
65°	731.7	704.4	655.3	619.8	595.2
67.5°	674.4	641.6	592.5	559.7	535.1
70°	619.8	581.6	532.4	499.6	475.1
72.5°	565.2	518.8	466.9	436.8	415.0
75°	510.6	458.7	406.8	376.8	354.9
77.5°	456.0	395.9	344.0	319.4	297.6
80°	390.4	333.1	284.0	262.1	240.3
82.5°	316.7	270.3	229.3	207.5	191.1
85°	245.7	213.0	180.2	163.8	147.4
87.5°	191.1	166.5	142.0	128.3	114.7
90°	147.4	133.8	114.7	103.8	87.4
92.5°	128.3	117.4	103.8	92.8	79.2
95°	117.4	109.2	98.3	87.4	76.4
97.5°	106.5	101.0	90.1	81.9	71.0
100°	101.0	92.8	84.6	76.4	68.3
102.5°	95.6	87.4	79.2	71.0	65.5
105°	87.4	81.9	73.7	65.5	60.1
107.5°	81.9	73.7	68.3	60.1	57.3
110°	73.7	68.3	62.8	57.3	54.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	65.5	62.8	57.3	51.9	49.1
115°	60.1	54.6	54.6	46.4	46.4
117.5°	54.6	49.1	49.1	43.7	43.7
120°	46.4	43.7	43.7	38.2	38.2
122.5°	41.0	38.2	38.2	35.5	35.5
125°	38.2	32.8	35.5	30.0	32.8
127.5°	32.8	30.0	30.0	27.3	30.0
130°	27.3	24.6	24.6	24.6	27.3
132.5°	24.6	21.8	21.8	21.8	24.6
135°	21.8	19.1	19.1	19.1	21.8
137.5°	19.1	16.4	13.7	16.4	19.1
140°	16.4	13.7	10.9	13.7	16.4
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

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