

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: P384080

Luminaire Tested: **14ID-50-L840-CFD1**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384080
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-50-L840-CFD1
Description: 1X4 IN DEPTH TROFFER WITH 1INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

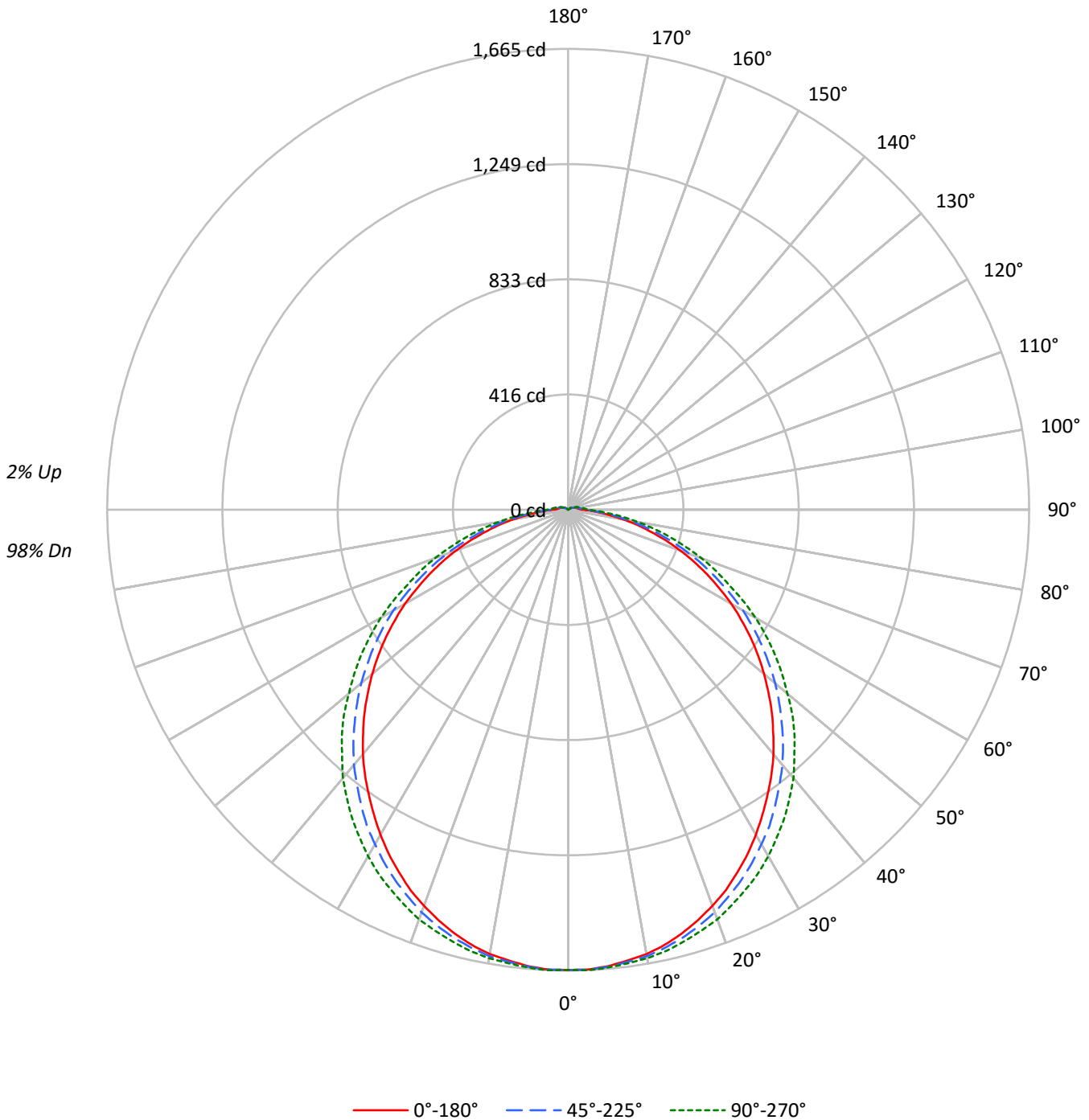
Lumens per Lamp: N/A
Luminaire Lumens: 4924.6 lumens
Efficiency: N/A
Efficacy: 114.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.08')
CIE Type: Direct

Input Watts (W): 43.1
Input Voltage (V): NR
Input Current (A_{in}): 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	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°	4475	4475	4475
5°	4463	4449	4452
10°	4438	4418	4431
15°	4392	4372	4402
20°	4329	4317	4379
25°	4251	4243	4332
30°	4162	4160	4286
35°	4066	4072	4224
40°	3982	3981	4156
45°	3881	3867	4061
50°	3774	3757	3936
55°	3663	3625	3821
60°	3541	3480	3676
65°	3379	3268	3453
70°	3196	3055	3277
75°	2987	2769	3010
80°	2768	2429	2681
85°	2678	2092	2290



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.5	3.2
10°-20°	451.4	9.2
20°-30°	681.5	13.8
30°-40°	816.6	16.6
40°-50°	844.3	17.1
50°-60°	764.6	15.5
60°-70°	591.6	12.0
70°-80°	363.4	7.4
80°-90°	144.4	2.9
90°-100°	52.6	1.1
100°-110°	32.4	0.7
110°-120°	16.7	0.3
120°-130°	7.1	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°	1290.4	26.2
0°-40°	2107.0	42.8
0°-60°	3715.9	75.5
0°-90°	4815.3	97.8
90°-120°	101.7	2.1
90°-150°	109.3	2.2
90°-180°	109.0	2.2
0°-180°	4924.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1663	1663	1663	1663	1663	
5°	1655	1655	1658	1658	1660	157
15°	1585	1588	1600	1610	1615	447
25°	1446	1456	1478	1503	1516	666
35°	1256	1271	1303	1338	1361	786
45°	1041	1054	1091	1136	1156	802
55°	804	821	854	891	911	718
65°	554	567	594	624	639	548
75°	310	325	340	362	380	330
85°	107	115	125	137	145	107
90°	50	57	62	70	75	29
95°	37	42	47	52	57	30
105°	28	28	30	32	35	29
115°	18	15	15	18	20	18
125°	10	8	5	8	10	9
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



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1662.8	1662.8	1662.8	1662.8	1662.8
2.5°	1662.8	1660.3	1662.8	1662.8	1665.3
5°	1655.3	1655.3	1657.8	1657.8	1660.3
7.5°	1642.8	1642.8	1647.8	1650.3	1652.8
10°	1630.3	1630.3	1637.8	1640.3	1645.3
12.5°	1610.3	1612.8	1620.3	1627.8	1632.8
15°	1585.4	1587.9	1600.4	1610.3	1615.3
17.5°	1555.4	1560.4	1575.4	1590.4	1595.4
20°	1523.0	1530.4	1547.9	1565.4	1575.4
22.5°	1488.0	1493.0	1513.0	1535.4	1545.4
25°	1445.6	1455.5	1478.0	1503.0	1515.5
27.5°	1403.1	1413.1	1438.1	1468.0	1483.0
30°	1355.7	1365.7	1395.6	1428.1	1445.6
32.5°	1305.8	1318.2	1353.2	1385.6	1403.1
35°	1255.8	1270.8	1303.3	1338.2	1360.7
37.5°	1205.9	1218.4	1253.3	1290.8	1313.2
40°	1153.5	1165.9	1203.4	1240.8	1265.8
42.5°	1096.0	1111.0	1148.5	1188.4	1208.4
45°	1041.1	1053.6	1091.0	1136.0	1156.0
47.5°	981.2	998.7	1033.6	1076.1	1098.5
50°	923.8	938.7	976.2	1016.1	1033.6
52.5°	863.8	878.8	913.8	953.7	973.7
55°	803.9	821.4	853.9	891.3	911.3
57.5°	741.5	759.0	791.4	823.9	846.4
60°	681.6	699.1	729.0	761.5	781.5
62.5°	614.2	629.2	661.6	696.6	711.5
65°	554.3	566.7	594.2	624.2	639.1
67.5°	491.8	506.8	531.8	559.3	576.7
70°	429.4	446.9	466.9	491.8	511.8
72.5°	369.5	384.5	402.0	426.9	444.4
75°	309.6	324.6	339.5	362.0	379.5
77.5°	257.2	264.6	279.6	299.6	317.1
80°	199.7	209.7	222.2	242.2	254.7
82.5°	149.8	159.8	169.8	184.8	197.2
85°	107.4	114.8	124.8	137.3	144.8
87.5°	72.4	79.9	87.4	97.4	104.9
90°	49.9	57.4	62.4	69.9	74.9
92.5°	42.4	47.4	52.4	57.4	62.4
95°	37.4	42.4	47.4	52.4	57.4
97.5°	35.0	37.4	42.4	47.4	49.9
100°	32.5	35.0	37.4	42.4	44.9
102.5°	30.0	30.0	35.0	37.4	39.9
105°	27.5	27.5	30.0	32.5	35.0
107.5°	25.0	25.0	27.5	27.5	32.5
110°	22.5	20.0	22.5	22.5	27.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	20.0	17.5	20.0	20.0	22.5
115°	17.5	15.0	15.0	17.5	20.0
117.5°	15.0	12.5	12.5	12.5	17.5
120°	15.0	12.5	10.0	10.0	15.0
122.5°	12.5	10.0	7.5	10.0	12.5
125°	10.0	7.5	5.0	7.5	10.0
127.5°	7.5	7.5	2.5	5.0	7.5
130°	7.5	5.0	2.5	5.0	5.0
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)