

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: P384561

Luminaire Tested: **14ID-20-L850-CFD3**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384561
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-69)
Test Lab: INNOVATION CENTER (G2)
Issue Date: 2/25/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 14ID-20-L850-CFD3
Description: 1X4 IN DEPTH TROFFER WITH 3INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

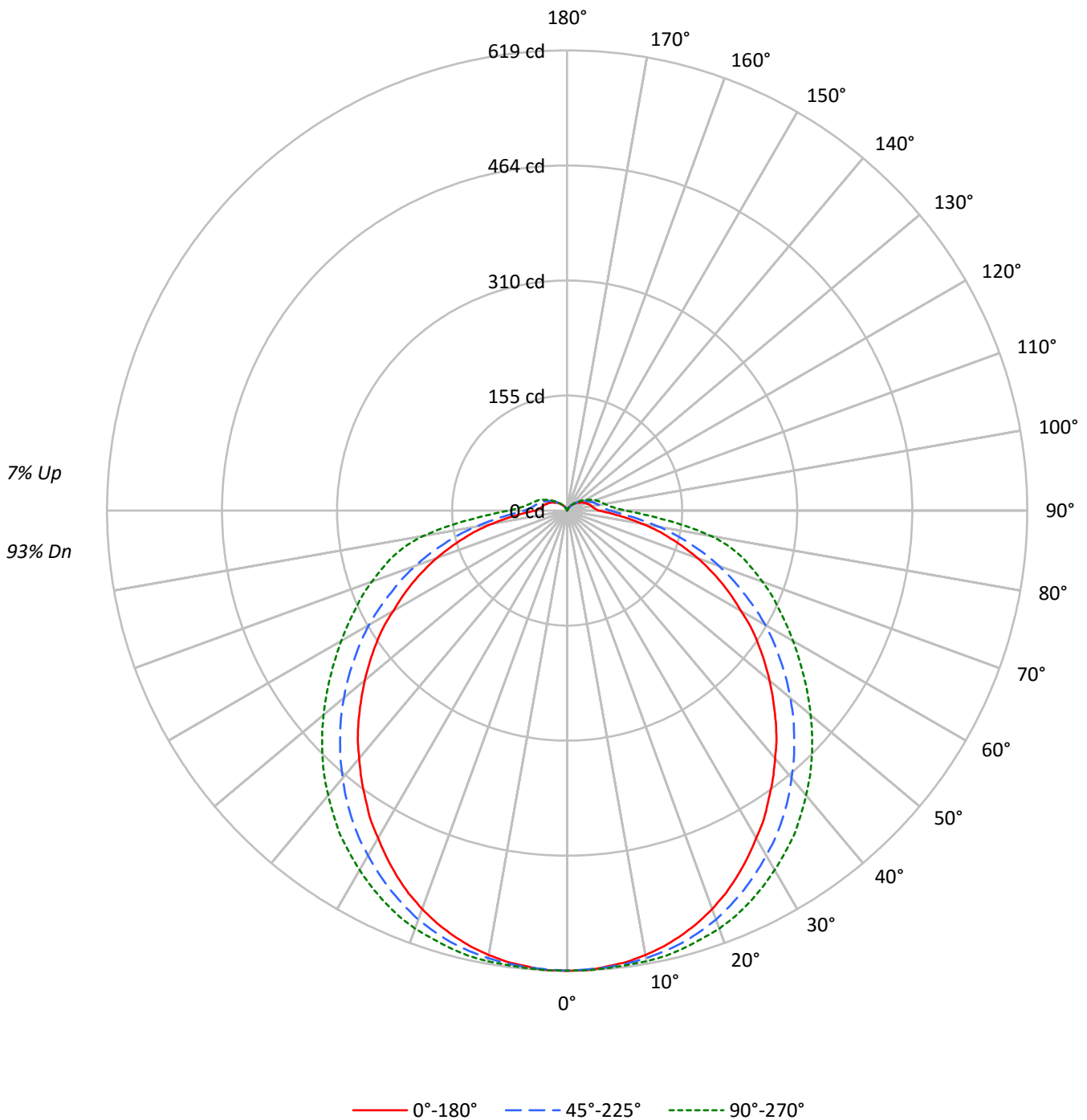
Lumens per Lamp: N/A
Luminaire Lumens: 2165.6 lumens
Efficiency: N/A
Efficacy: 131.2 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.25')
CIE Type: Direct

Input Watts (W): 16.5
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	117	117	117	117	114	114	114	114	107	107	107	101	101	101	95	95	95	93
1	105	100	95	91	102	97	93	89	91	88	84	86	83	80	81	79	77	74
2	95	86	79	73	92	84	77	71	79	73	68	74	70	66	70	67	63	60
3	86	75	66	60	83	73	65	59	69	62	57	65	59	55	62	57	53	50
4	79	66	57	50	76	64	56	49	61	54	48	58	51	46	55	49	45	42
5	72	59	50	43	70	57	49	42	54	47	41	52	45	40	49	43	39	36
6	67	53	44	37	64	52	43	37	49	41	36	47	40	35	44	39	34	32
7	62	48	39	33	60	47	38	32	44	37	31	42	36	31	40	35	30	28
8	57	44	35	29	55	43	34	29	41	33	28	39	32	27	37	31	27	25
9	54	40	32	26	52	39	31	26	37	30	25	36	29	25	34	28	24	22
10	50	37	29	23	49	36	28	23	35	28	23	33	27	22	32	26	22	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1665	1665	1665
5°	1654	1634	1633
10°	1641	1608	1611
15°	1622	1582	1590
20°	1597	1552	1570
25°	1564	1515	1545
30°	1526	1476	1516
35°	1489	1438	1489
40°	1453	1392	1452
45°	1420	1346	1417
50°	1384	1299	1380
55°	1354	1248	1344
60°	1311	1198	1318
65°	1286	1129	1303
70°	1254	1063	1305
75°	1211	972	1313
80°	1174	862	1260
85°	1187	729	1012



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.7	2.7
10°-20°	169.6	7.8
20°-30°	259.1	12.0
30°-40°	315.4	14.6
40°-50°	333.3	15.4
50°-60°	314.6	14.5
60°-70°	264.7	12.2
70°-80°	190.8	8.8
80°-90°	100.6	4.6
90°-100°	53.9	2.5
100°-110°	40.9	1.9
110°-120°	29.7	1.4
120°-130°	18.6	0.9
130°-140°	10.1	0.5
140°-150°	4.4	0.2
150°-160°	1.2	0.1
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	487.3	22.5
0°-40°	802.7	37.1
0°-60°	1450.6	67.0
0°-90°	2006.8	92.7
90°-120°	124.5	5.7
90°-150°	157.6	7.3
90°-180°	159.0	7.3
0°-180°	2165.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	619	619	619	619	619	
5°	616	616	617	617	618	59
15°	592	594	602	606	609	167
25°	542	549	563	576	581	250
35°	473	484	505	525	532	296
45°	396	408	432	456	466	306
55°	314	328	350	376	389	281
65°	229	242	261	294	314	226
75°	144	156	171	204	244	152
85°	66	74	83	104	126	62
90°	42	50	57	68	78	24
95°	37	42	49	55	59	29
105°	31	35	39	43	45	33
115°	25	27	30	32	35	25
125°	18	18	22	22	23	17
135°	13	12	13	13	14	10
145°	8	6	6	6	8	5
155°	3	3	1	2	3	2
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°	618.9	618.9	618.9	618.9	618.9
2.5°	618.9	617.8	617.8	617.8	618.9
5°	615.6	615.6	616.7	616.7	617.8
7.5°	612.4	612.4	614.5	615.6	616.7
10°	607.0	608.1	611.3	613.5	615.6
12.5°	600.5	601.6	607.0	611.3	613.5
15°	591.9	594.0	601.6	605.9	609.1
17.5°	582.1	585.4	594.0	600.5	603.7
20°	570.3	574.6	585.4	594.0	598.3
22.5°	557.3	561.6	574.6	585.4	590.8
25°	542.2	548.7	562.7	575.7	581.1
27.5°	526.0	533.5	549.7	564.9	570.3
30°	508.7	517.3	535.7	551.9	558.4
32.5°	492.5	501.1	521.6	538.9	545.4
35°	473.0	483.8	505.4	524.9	532.5
37.5°	454.7	465.5	488.2	508.7	516.2
40°	435.2	446.0	469.8	492.5	500.0
42.5°	416.9	427.7	451.4	475.2	483.8
45°	396.4	408.2	432.0	455.8	465.5
47.5°	375.8	387.7	412.6	437.4	447.1
50°	355.3	368.3	392.0	416.9	427.7
52.5°	334.8	347.8	371.5	397.4	408.2
55°	314.3	328.3	349.9	375.8	388.8
57.5°	293.8	307.8	329.4	356.4	369.4
60°	270.0	286.2	307.8	335.9	351.0
62.5°	249.5	263.5	285.1	314.3	332.6
65°	229.0	241.9	261.4	293.8	314.3
67.5°	207.4	221.4	239.8	270.0	298.1
70°	186.8	198.7	217.1	248.4	279.7
72.5°	165.2	177.1	194.4	226.8	261.4
75°	143.6	155.5	170.6	204.1	244.1
77.5°	124.2	133.9	148.0	180.4	223.6
80°	102.6	112.3	125.3	154.4	196.6
82.5°	83.2	91.8	102.6	128.5	162.0
85°	65.9	74.5	83.2	103.7	126.4
87.5°	52.9	59.4	68.0	83.2	98.3
90°	42.1	49.7	57.2	68.0	77.8
92.5°	38.9	45.4	51.8	60.5	67.0
95°	36.7	42.1	48.6	55.1	59.4
97.5°	34.6	40.0	45.4	51.8	55.1
100°	33.5	37.8	43.2	48.6	50.8
102.5°	32.4	35.6	41.0	45.4	48.6
105°	31.3	34.6	38.9	43.2	45.4
107.5°	29.2	32.4	36.7	41.0	43.2
110°	28.1	30.2	34.6	37.8	41.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	27.0	29.2	32.4	35.6	37.8
115°	24.8	27.0	30.2	32.4	34.6
117.5°	23.8	24.8	28.1	29.2	31.3
120°	21.6	22.7	25.9	27.0	28.1
122.5°	19.4	20.5	23.8	23.8	25.9
125°	18.4	18.4	21.6	21.6	22.7
127.5°	17.3	17.3	19.4	19.4	20.5
130°	15.1	15.1	17.3	17.3	17.3
132.5°	14.0	13.0	15.1	15.1	16.2
135°	13.0	11.9	13.0	13.0	14.0
137.5°	10.8	10.8	11.9	10.8	11.9
140°	9.7	8.6	9.7	9.7	10.8
142.5°	8.6	7.6	8.6	7.6	8.6
145°	7.6	6.5	6.5	6.5	7.6
147.5°	6.5	5.4	5.4	5.4	6.5
150°	5.4	4.3	4.3	4.3	5.4
152.5°	4.3	3.2	2.2	3.2	4.3
155°	3.2	3.2	1.1	2.2	3.2
157.5°	2.2	2.2	0.0	1.1	2.2
160°	1.1	1.1	0.0	1.1	1.1
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)