

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: P384057

Luminaire Tested: **14ID-20-L850-CFD1**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384057
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-20-L850-CFD1
Description: 1X4 IN DEPTH TROFFER WITH 1INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

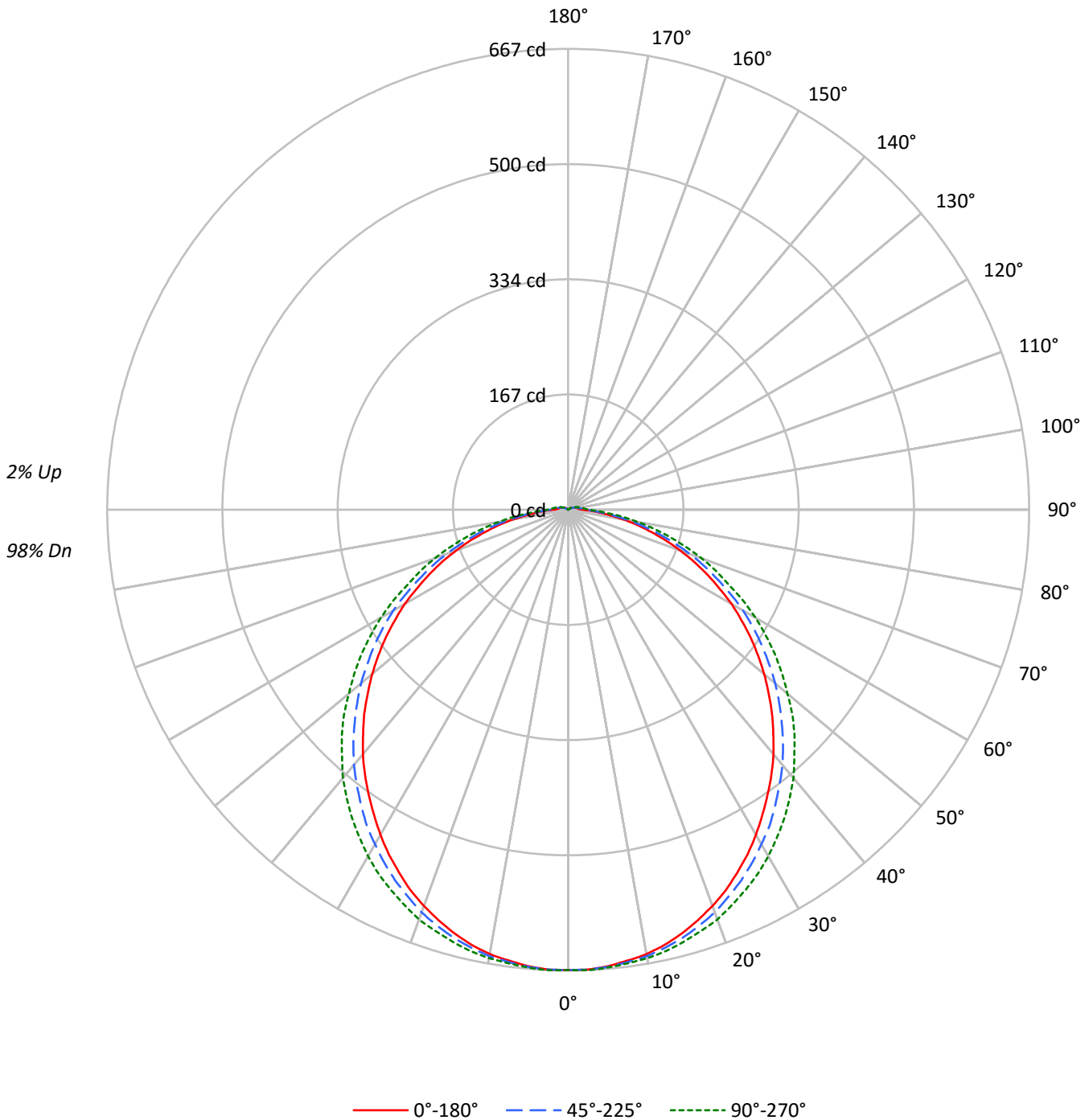
Lumens per Lamp: N/A
Luminaire Lumens: 1973.1 lumens
Efficiency: N/A
Efficacy: 119.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.08')
CIE Type: Direct

Input Watts (W): 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	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°	1793	1793	1793
5°	1788	1783	1784
10°	1778	1770	1775
15°	1760	1752	1764
20°	1734	1730	1754
25°	1703	1700	1735
30°	1668	1667	1717
35°	1629	1631	1692
40°	1595	1595	1665
45°	1555	1549	1627
50°	1512	1505	1577
55°	1468	1452	1531
60°	1419	1394	1473
65°	1354	1309	1384
70°	1281	1224	1313
75°	1196	1109	1206
80°	1109	973	1074
85°	1072	838	917



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.1	3.2
10°-20°	180.9	9.2
20°-30°	273.1	13.8
30°-40°	327.2	16.6
40°-50°	338.2	17.1
50°-60°	306.3	15.5
60°-70°	237.1	12.0
70°-80°	145.6	7.4
80°-90°	57.8	2.9
90°-100°	21.1	1.1
100°-110°	13.0	0.7
110°-120°	6.7	0.3
120°-130°	2.8	0.1
130°-140°	0.2	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°	517.0	26.2
0°-40°	844.2	42.8
0°-60°	1488.8	75.5
0°-90°	1929.3	97.8
90°-120°	40.7	2.1
90°-150°	43.8	2.2
90°-180°	44.0	2.2
0°-180°	1973.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	666	666	666	666	666	
5°	663	663	664	664	665	63
15°	635	636	641	645	647	179
25°	579	583	592	602	607	267
35°	503	509	522	536	545	315
45°	417	422	437	455	463	321
55°	322	329	342	357	365	288
65°	222	227	238	250	256	220
75°	124	130	136	145	152	132
85°	43	46	50	55	58	43
90°	20	23	25	28	30	12
95°	15	17	19	21	23	12
105°	11	11	12	13	14	12
115°	7	6	6	7	8	7
125°	4	3	2	3	4	4
135°	0	0	0	0	0	0
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°	666.2	666.2	666.2	666.2	666.2
2.5°	666.2	665.2	666.2	666.2	667.2
5°	663.2	663.2	664.2	664.2	665.2
7.5°	658.2	658.2	660.2	661.2	662.2
10°	653.2	653.2	656.2	657.2	659.2
12.5°	645.2	646.2	649.2	652.2	654.2
15°	635.2	636.2	641.2	645.2	647.2
17.5°	623.2	625.2	631.2	637.2	639.2
20°	610.2	613.2	620.2	627.2	631.2
22.5°	596.2	598.2	606.2	615.2	619.2
25°	579.2	583.2	592.2	602.2	607.2
27.5°	562.2	566.2	576.2	588.2	594.2
30°	543.2	547.2	559.2	572.2	579.2
32.5°	523.2	528.2	542.2	555.2	562.2
35°	503.2	509.2	522.2	536.2	545.2
37.5°	483.2	488.2	502.2	517.2	526.2
40°	462.1	467.1	482.2	497.2	507.2
42.5°	439.1	445.1	460.1	476.1	484.2
45°	417.1	422.1	437.1	455.1	463.1
47.5°	393.1	400.1	414.1	431.1	440.1
50°	370.1	376.1	391.1	407.1	414.1
52.5°	346.1	352.1	366.1	382.1	390.1
55°	322.1	329.1	342.1	357.1	365.1
57.5°	297.1	304.1	317.1	330.1	339.1
60°	273.1	280.1	292.1	305.1	313.1
62.5°	246.1	252.1	265.1	279.1	285.1
65°	222.1	227.1	238.1	250.1	256.1
67.5°	197.1	203.1	213.1	224.1	231.1
70°	172.1	179.1	187.1	197.1	205.1
72.5°	148.0	154.0	161.1	171.1	178.1
75°	124.0	130.0	136.0	145.0	152.0
77.5°	103.0	106.0	112.0	120.0	127.0
80°	80.0	84.0	89.0	97.0	102.0
82.5°	60.0	64.0	68.0	74.0	79.0
85°	43.0	46.0	50.0	55.0	58.0
87.5°	29.0	32.0	35.0	39.0	42.0
90°	20.0	23.0	25.0	28.0	30.0
92.5°	17.0	19.0	21.0	23.0	25.0
95°	15.0	17.0	19.0	21.0	23.0
97.5°	14.0	15.0	17.0	19.0	20.0
100°	13.0	14.0	15.0	17.0	18.0
102.5°	12.0	12.0	14.0	15.0	16.0
105°	11.0	11.0	12.0	13.0	14.0
107.5°	10.0	10.0	11.0	11.0	13.0
110°	9.0	8.0	9.0	9.0	11.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	8.0	7.0	8.0	8.0	9.0
115°	7.0	6.0	6.0	7.0	8.0
117.5°	6.0	5.0	5.0	5.0	7.0
120°	6.0	5.0	4.0	4.0	6.0
122.5°	5.0	4.0	3.0	4.0	5.0
125°	4.0	3.0	2.0	3.0	4.0
127.5°	3.0	3.0	1.0	2.0	3.0
130°	3.0	2.0	1.0	2.0	2.0
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)