

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: P384054

Luminaire Tested: **14ID-20-L830-CFD1**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384054
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-L830-CFD1
Description: 1X4 IN DEPTH TROFFER WITH 1INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

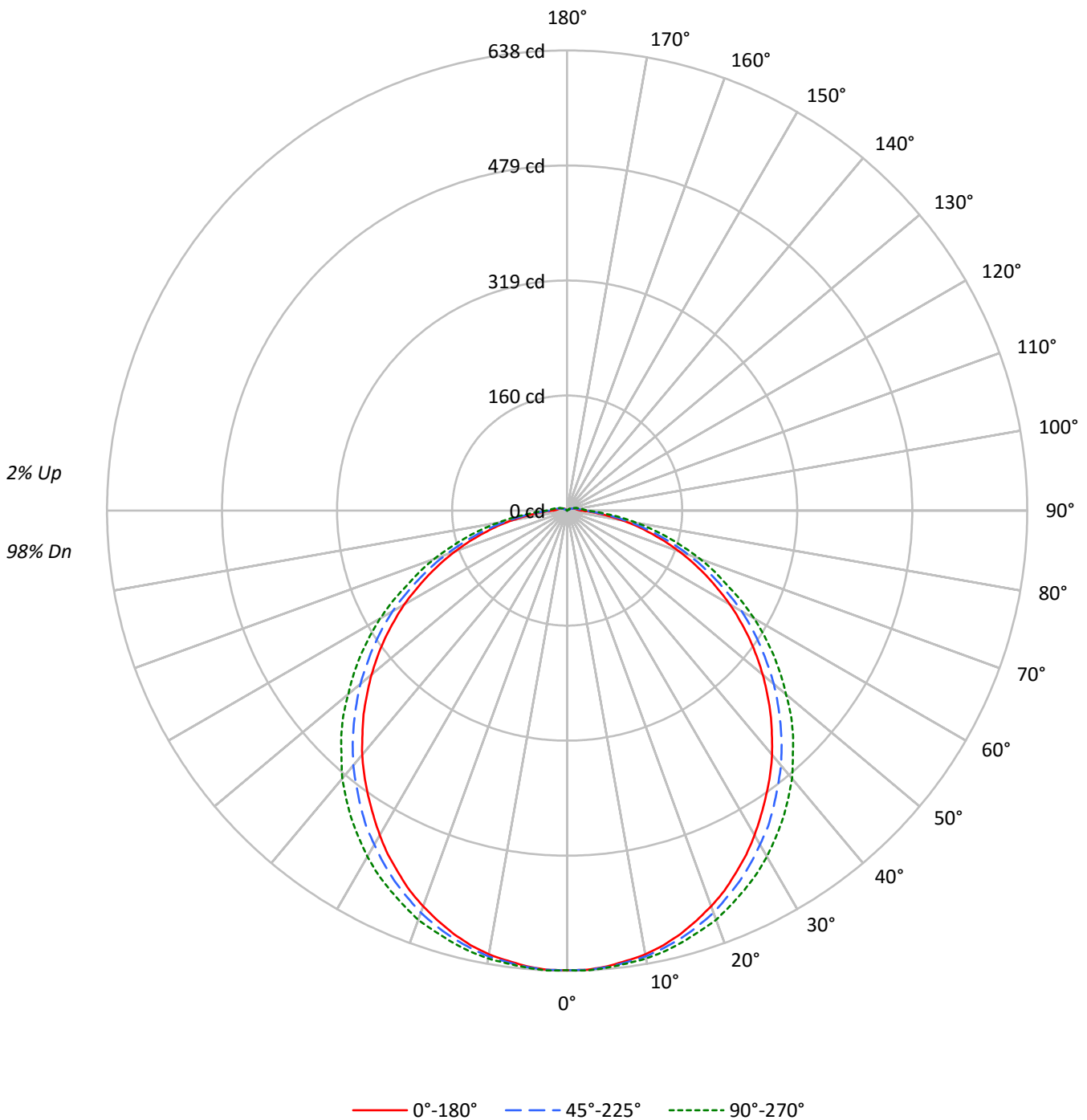
Lumens per Lamp: N/A
Luminaire Lumens: 1887.4 lumens
Efficiency: N/A
Efficacy: 115.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.08')
CIE Type: Direct

Input Watts (W): 16.4
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°	1715	1715	1715
5°	1711	1705	1706
10°	1701	1693	1698
15°	1683	1676	1687
20°	1659	1655	1678
25°	1629	1626	1660
30°	1595	1594	1642
35°	1558	1560	1619
40°	1526	1526	1593
45°	1487	1482	1556
50°	1446	1440	1508
55°	1404	1389	1465
60°	1357	1334	1409
65°	1295	1252	1324
70°	1225	1171	1256
75°	1145	1061	1153
80°	1060	931	1027
85°	1025	801	878



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.4	3.2
10°-20°	173.0	9.2
20°-30°	261.2	13.8
30°-40°	313.0	16.6
40°-50°	323.6	17.1
50°-60°	293.0	15.5
60°-70°	226.7	12.0
70°-80°	139.3	7.4
80°-90°	55.3	2.9
90°-100°	20.2	1.1
100°-110°	12.4	0.7
110°-120°	6.4	0.3
120°-130°	2.7	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°	494.6	26.2
0°-40°	807.6	42.8
0°-60°	1424.1	75.5
0°-90°	1845.5	97.8
90°-120°	39.0	2.1
90°-150°	41.9	2.2
90°-180°	42.0	2.2
0°-180°	1887.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	637	637	637	637	637	
5°	634	634	635	635	636	60
15°	608	609	613	617	619	171
25°	554	558	566	576	581	255
35°	481	487	500	513	522	301
45°	399	404	418	435	443	308
55°	308	315	327	342	349	275
65°	212	217	228	239	245	210
75°	119	124	130	139	145	126
85°	41	44	48	53	56	41
90°	19	22	24	27	29	11
95°	14	16	18	20	22	11
105°	10	10	12	12	13	11
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°	637.3	637.3	637.3	637.3	637.3
2.5°	637.3	636.3	637.3	637.3	638.2
5°	634.4	634.4	635.4	635.4	636.3
7.5°	629.6	629.6	631.5	632.5	633.4
10°	624.8	624.8	627.7	628.7	630.6
12.5°	617.2	618.1	621.0	623.9	625.8
15°	607.6	608.6	613.4	617.2	619.1
17.5°	596.1	598.0	603.8	609.5	611.4
20°	583.7	586.6	593.3	600.0	603.8
22.5°	570.3	572.2	579.9	588.5	592.3
25°	554.0	557.9	566.5	576.0	580.8
27.5°	537.8	541.6	551.2	562.6	568.4
30°	519.6	523.4	534.9	547.3	554.0
32.5°	500.4	505.2	518.6	531.1	537.8
35°	481.3	487.0	499.5	512.9	521.5
37.5°	462.2	467.0	480.3	494.7	503.3
40°	442.1	446.9	461.2	475.6	485.1
42.5°	420.1	425.8	440.2	455.5	463.1
45°	399.0	403.8	418.2	435.4	443.0
47.5°	376.0	382.7	396.1	412.4	421.0
50°	354.0	359.8	374.1	389.4	396.1
52.5°	331.1	336.8	350.2	365.5	373.2
55°	308.1	314.8	327.2	341.6	349.3
57.5°	284.2	290.9	303.3	315.8	324.4
60°	261.2	267.9	279.4	291.8	299.5
62.5°	235.4	241.1	253.6	267.0	272.7
65°	212.4	217.2	227.7	239.2	245.0
67.5°	188.5	194.2	203.8	214.3	221.0
70°	164.6	171.3	178.9	188.5	196.2
72.5°	141.6	147.4	154.1	163.6	170.3
75°	118.7	124.4	130.1	138.7	145.4
77.5°	98.6	101.4	107.2	114.8	121.5
80°	76.5	80.4	85.2	92.8	97.6
82.5°	57.4	61.2	65.1	70.8	75.6
85°	41.1	44.0	47.8	52.6	55.5
87.5°	27.7	30.6	33.5	37.3	40.2
90°	19.1	22.0	23.9	26.8	28.7
92.5°	16.3	18.2	20.1	22.0	23.9
95°	14.4	16.3	18.2	20.1	22.0
97.5°	13.4	14.4	16.3	18.2	19.1
100°	12.4	13.4	14.4	16.3	17.2
102.5°	11.5	11.5	13.4	14.4	15.3
105°	10.5	10.5	11.5	12.4	13.4
107.5°	9.6	9.6	10.5	10.5	12.4
110°	8.6	7.7	8.6	8.6	10.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	7.7	6.7	7.7	7.7	8.6
115°	6.7	5.7	5.7	6.7	7.7
117.5°	5.7	4.8	4.8	4.8	6.7
120°	5.7	4.8	3.8	3.8	5.7
122.5°	4.8	3.8	2.9	3.8	4.8
125°	3.8	2.9	1.9	2.9	3.8
127.5°	2.9	2.9	1.0	1.9	2.9
130°	2.9	1.9	1.0	1.9	1.9
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)