

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: P384582

Luminaire Tested: **14ID-50-L830-CFD3**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384582
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-50-L830-CFD3
Description: 1X4 IN DEPTH TROFFER WITH 3INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

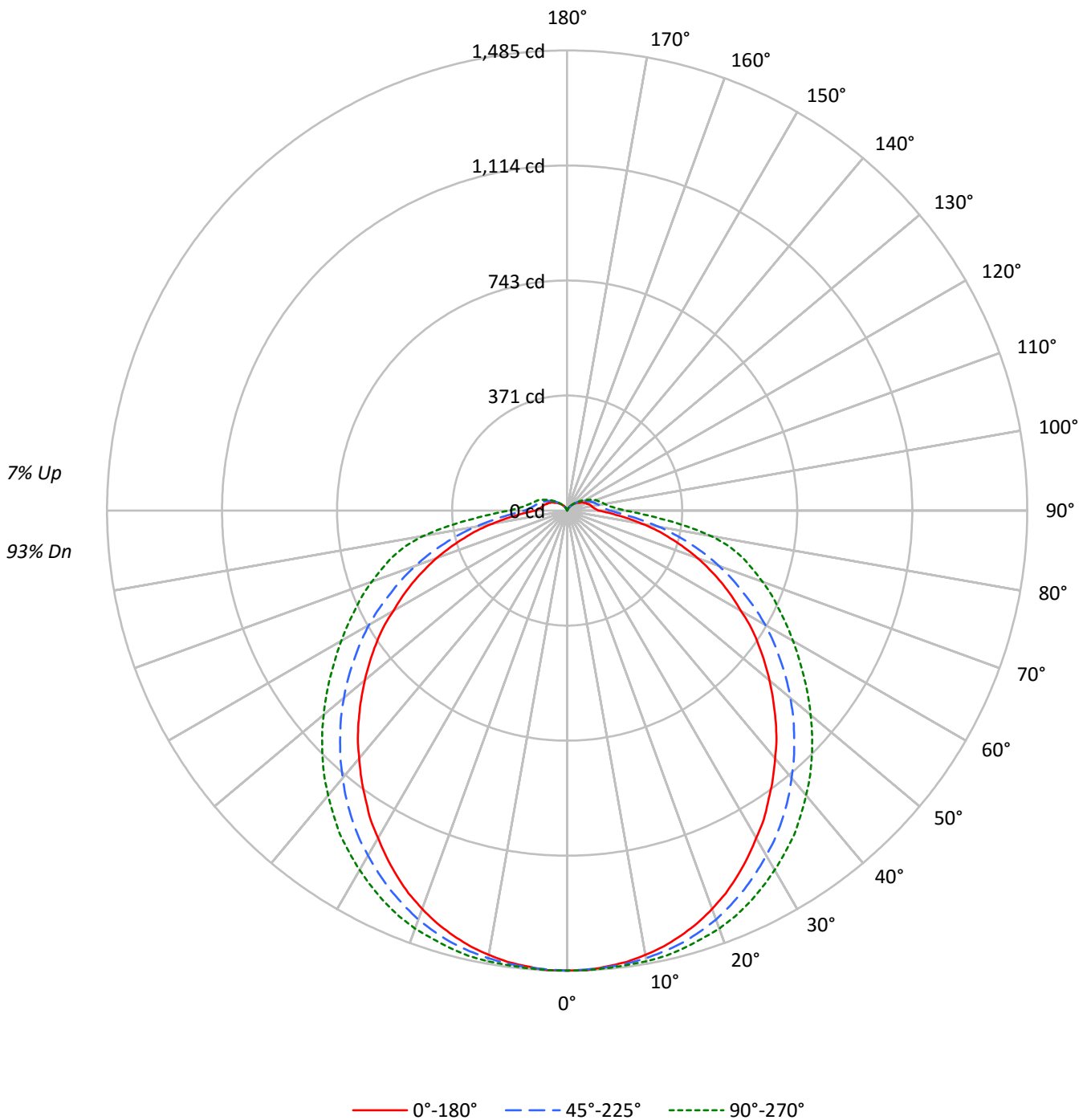
Lumens per Lamp: N/A
Luminaire Lumens: 5195.2 lumens
Efficiency: N/A
Efficacy: 120.5 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.25')
CIE Type: Direct

Input Watts (W): 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	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°	3995	3995	3995
5°	3968	3920	3918
10°	3935	3857	3865
15°	3890	3796	3815
20°	3830	3722	3768
25°	3752	3634	3707
30°	3660	3541	3637
35°	3572	3450	3571
40°	3485	3340	3483
45°	3406	3230	3400
50°	3321	3117	3309
55°	3248	2994	3225
60°	3145	2874	3163
65°	3084	2709	3125
70°	3010	2550	3130
75°	2905	2333	3150
80°	2816	2067	3022
85°	2846	1747	2426



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.8	2.7
10°-20°	406.8	7.8
20°-30°	621.5	12.0
30°-40°	756.5	14.6
40°-50°	799.6	15.4
50°-60°	754.8	14.5
60°-70°	635.0	12.2
70°-80°	457.8	8.8
80°-90°	241.4	4.6
90°-100°	129.2	2.5
100°-110°	98.2	1.9
110°-120°	71.2	1.4
120°-130°	44.7	0.9
130°-140°	24.2	0.5
140°-150°	10.5	0.2
150°-160°	2.8	0.1
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	1169.1	22.5
0°-40°	1925.6	37.1
0°-60°	3480.0	67.0
0°-90°	4814.3	92.7
90°-120°	298.6	5.7
90°-150°	378.0	7.3
90°-180°	381.0	7.3
0°-180°	5195.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1485	1485	1485	1485	1485	
5°	1477	1477	1479	1479	1482	140
15°	1420	1425	1443	1454	1461	400
25°	1301	1316	1350	1381	1394	599
35°	1135	1161	1213	1259	1277	711
45°	951	979	1036	1093	1117	734
55°	754	788	840	902	933	674
65°	549	580	627	705	754	543
75°	345	373	409	490	586	366
85°	158	179	200	249	303	148
90°	101	119	137	163	186	58
95°	88	101	117	132	142	70
105°	75	83	93	104	109	79
115°	60	65	72	78	83	60
125°	44	44	52	52	54	40
135°	31	28	31	31	34	23
145°	18	16	16	16	18	12
155°	8	8	3	5	8	4
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°	1484.6	1484.6	1484.6	1484.6	1484.6
2.5°	1484.6	1482.0	1482.0	1482.0	1484.6
5°	1476.8	1476.8	1479.4	1479.4	1482.0
7.5°	1469.1	1469.1	1474.2	1476.8	1479.4
10°	1456.1	1458.7	1466.5	1471.6	1476.8
12.5°	1440.6	1443.1	1456.1	1466.5	1471.6
15°	1419.8	1425.0	1443.1	1453.5	1461.3
17.5°	1396.5	1404.3	1425.0	1440.6	1448.3
20°	1368.0	1378.4	1404.3	1425.0	1435.4
22.5°	1336.9	1347.3	1378.4	1404.3	1417.2
25°	1300.6	1316.2	1349.9	1381.0	1393.9
27.5°	1261.8	1279.9	1318.8	1355.1	1368.0
30°	1220.3	1241.1	1285.1	1324.0	1339.5
32.5°	1181.5	1202.2	1251.4	1292.9	1308.4
35°	1134.8	1160.7	1212.6	1259.2	1277.3
37.5°	1090.8	1116.7	1171.1	1220.3	1238.5
40°	1044.1	1070.1	1127.1	1181.5	1199.6
42.5°	1000.1	1026.0	1083.0	1140.0	1160.7
45°	950.9	979.4	1036.4	1093.4	1116.7
47.5°	901.6	930.1	989.7	1049.3	1072.6
50°	852.4	883.5	940.5	1000.1	1026.0
52.5°	803.2	834.3	891.3	953.5	979.4
55°	754.0	787.6	839.5	901.6	932.7
57.5°	704.7	738.4	790.2	855.0	886.1
60°	647.7	686.6	738.4	805.8	842.1
62.5°	598.5	632.2	684.0	754.0	798.0
65°	549.3	580.4	627.0	704.7	754.0
67.5°	497.5	531.1	575.2	647.7	715.1
70°	448.2	476.7	520.8	595.9	671.1
72.5°	396.4	424.9	466.4	544.1	627.0
75°	344.6	373.1	409.4	489.7	585.6
77.5°	298.0	321.3	355.0	432.7	536.3
80°	246.1	269.5	300.5	370.5	471.5
82.5°	199.5	220.2	246.1	308.3	388.6
85°	158.0	178.8	199.5	248.7	303.1
87.5°	127.0	142.5	163.2	199.5	235.8
90°	101.0	119.2	137.3	163.2	186.5
92.5°	93.3	108.8	124.4	145.1	160.6
95°	88.1	101.0	116.6	132.1	142.5
97.5°	82.9	95.9	108.8	124.4	132.1
100°	80.3	90.7	103.6	116.6	121.8
102.5°	77.7	85.5	98.5	108.8	116.6
105°	75.1	82.9	93.3	103.6	108.8
107.5°	70.0	77.7	88.1	98.5	103.6
110°	67.4	72.5	82.9	90.7	98.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	64.8	70.0	77.7	85.5	90.7
115°	59.6	64.8	72.5	77.7	82.9
117.5°	57.0	59.6	67.4	70.0	75.1
120°	51.8	54.4	62.2	64.8	67.4
122.5°	46.6	49.2	57.0	57.0	62.2
125°	44.0	44.0	51.8	51.8	54.4
127.5°	41.5	41.5	46.6	46.6	49.2
130°	36.3	36.3	41.5	41.5	41.5
132.5°	33.7	31.1	36.3	36.3	38.9
135°	31.1	28.5	31.1	31.1	33.7
137.5°	25.9	25.9	28.5	25.9	28.5
140°	23.3	20.7	23.3	23.3	25.9
142.5°	20.7	18.1	20.7	18.1	20.7
145°	18.1	15.5	15.5	15.5	18.1
147.5°	15.5	13.0	13.0	13.0	15.5
150°	13.0	10.4	10.4	10.4	13.0
152.5°	10.4	7.8	5.2	7.8	10.4
155°	7.8	7.8	2.6	5.2	7.8
157.5°	5.2	5.2	0.0	2.6	5.2
160°	2.6	2.6	0.0	2.6	2.6
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)