

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: P384246

Luminaire Tested: **14ID-50-L830-CFD2**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384246
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-68)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 2/25/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 14ID-50-L830-CFD2
Description: 1X4 IN DEPTH TROFFER WITH 2INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

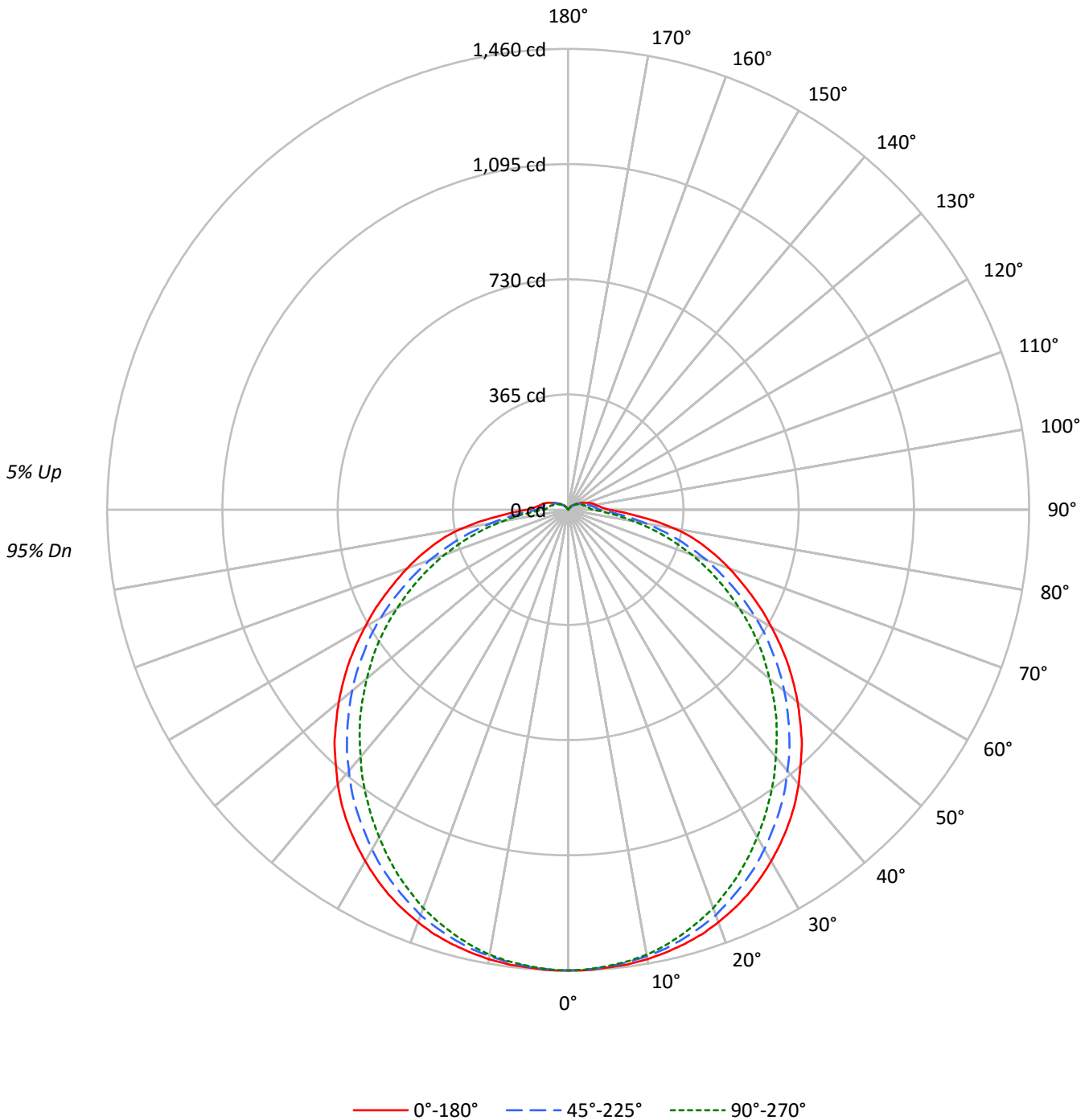
Lumens per Lamp: N/A
Luminaire Lumens: 4735.8 lumens
Efficiency: N/A
Efficacy: 109.9 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.22 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.17')
CIE Type: Direct

Input Watts (W): 43.1
Input Voltage (V): NR
Input Current (Ain): 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	118	118	118	118	114	114	114	114	108	108	108	102	102	102	97	97	97	95
1	106	101	96	92	103	98	94	90	93	90	86	88	85	83	84	81	79	77
2	96	87	80	74	93	85	78	73	81	75	70	77	72	68	73	69	66	63
3	87	76	68	61	84	74	67	60	71	64	58	67	62	57	64	59	55	53
4	80	68	58	51	77	66	57	51	63	55	50	60	53	48	57	51	47	45
5	73	60	51	44	71	59	50	44	56	48	43	53	47	42	51	45	41	38
6	68	54	45	38	65	53	44	38	50	43	37	48	42	36	46	40	36	33
7	63	49	40	34	61	48	39	33	46	38	33	44	37	32	42	36	32	30
8	58	45	36	30	56	44	35	30	42	35	29	40	34	29	39	33	28	26
9	54	41	33	27	53	40	32	27	39	31	26	37	31	26	36	30	25	24
10	51	38	30	24	50	37	29	24	36	29	24	34	28	23	33	27	23	21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3929	3929	3929
5°	3917	3875	3862
10°	3922	3825	3800
15°	3924	3773	3715
20°	3923	3715	3626
25°	3919	3638	3516
30°	3901	3559	3394
35°	3883	3473	3276
40°	3853	3377	3152
45°	3824	3282	3040
50°	3784	3183	2905
55°	3757	3066	2780
60°	3731	2941	2615
65°	3744	2775	2444
70°	3830	2610	2244
75°	4021	2389	1992
80°	4283	2098	1675
85°	4499	1814	1371



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.2	2.9
10°-20°	397.4	8.4
20°-30°	603.6	12.7
30°-40°	729.0	15.4
40°-50°	763.1	16.1
50°-60°	708.0	15.0
60°-70°	573.5	12.1
70°-80°	387.0	8.2
80°-90°	187.0	3.9
90°-100°	94.1	2.0
100°-110°	68.4	1.4
110°-120°	45.7	1.0
120°-130°	26.5	0.6
130°-140°	13.3	0.3
140°-150°	1.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1139.1	24.1
0°-40°	1868.2	39.4
0°-60°	3339.3	70.5
0°-90°	4486.8	94.7
90°-120°	208.1	4.4
90°-150°	249.0	5.3
90°-180°	249.0	5.3
0°-180°	4735.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1460	1460	1460	1460	1460	
5°	1455	1453	1453	1451	1451	139
15°	1424	1417	1408	1398	1393	402
25°	1345	1334	1310	1286	1276	620
35°	1216	1200	1166	1130	1114	761
45°	1047	1028	989	949	932	806
55°	848	829	791	753	734	758
65°	640	617	574	542	521	636
75°	447	402	356	330	311	471
85°	215	186	158	143	129	203
90°	129	117	100	91	76	74
95°	103	96	86	76	67	81
105°	76	72	64	57	53	82
115°	53	48	48	41	41	52
125°	34	29	31	26	29	29
135°	19	17	17	17	19	15
145°	0	0	0	0	0	1
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°	1460.1	1460.1	1460.1	1460.1	1460.1
2.5°	1460.1	1457.7	1457.7	1457.7	1457.7
5°	1455.4	1453.0	1453.0	1450.6	1450.6
7.5°	1453.0	1448.2	1445.8	1443.4	1443.4
10°	1445.8	1441.0	1436.2	1431.5	1431.5
12.5°	1436.2	1431.5	1424.3	1414.7	1414.7
15°	1424.3	1417.1	1407.6	1398.0	1393.2
17.5°	1410.0	1402.8	1388.4	1374.1	1369.3
20°	1390.8	1381.3	1366.9	1347.8	1343.0
22.5°	1369.3	1359.8	1338.3	1319.1	1309.6
25°	1345.4	1333.5	1309.6	1285.7	1276.1
27.5°	1316.8	1304.8	1278.5	1249.8	1237.9
30°	1285.7	1271.3	1242.7	1211.6	1197.3
32.5°	1252.2	1235.5	1204.4	1171.0	1156.6
35°	1216.4	1199.7	1166.2	1130.4	1113.6
37.5°	1178.1	1161.4	1125.6	1087.3	1070.6
40°	1135.1	1118.4	1080.2	1041.9	1022.8
42.5°	1089.7	1075.4	1037.2	996.5	977.4
45°	1046.7	1027.6	989.4	948.7	932.0
47.5°	996.5	982.2	941.6	900.9	881.8
50°	948.7	932.0	893.8	853.1	831.6
52.5°	898.5	884.2	843.6	803.0	783.8
55°	848.4	829.2	791.0	752.8	733.7
57.5°	795.8	779.1	740.8	705.0	681.1
60°	743.2	726.5	685.9	652.4	626.1
62.5°	693.0	673.9	630.9	595.0	573.5
65°	640.5	616.6	573.5	542.5	521.0
67.5°	590.3	561.6	518.6	489.9	468.4
70°	542.5	509.0	466.0	437.3	415.8
72.5°	494.7	454.1	408.6	382.4	363.2
75°	446.9	401.5	356.1	329.8	310.7
77.5°	399.1	346.5	301.1	279.6	260.5
80°	341.7	291.5	248.5	229.4	210.3
82.5°	277.2	236.6	200.7	181.6	167.3
85°	215.1	186.4	157.7	143.4	129.0
87.5°	167.3	145.8	124.3	112.3	100.4
90°	129.0	117.1	100.4	90.8	76.5
92.5°	112.3	102.8	90.8	81.3	69.3
95°	102.8	95.6	86.0	76.5	66.9
97.5°	93.2	88.4	78.9	71.7	62.1
100°	88.4	81.3	74.1	66.9	59.7
102.5°	83.6	76.5	69.3	62.1	57.4
105°	76.5	71.7	64.5	57.4	52.6
107.5°	71.7	64.5	59.7	52.6	50.2
110°	64.5	59.7	55.0	50.2	47.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	57.4	55.0	50.2	45.4	43.0
115°	52.6	47.8	47.8	40.6	40.6
117.5°	47.8	43.0	43.0	38.2	38.2
120°	40.6	38.2	38.2	33.5	33.5
122.5°	35.8	33.5	33.5	31.1	31.1
125°	33.5	28.7	31.1	26.3	28.7
127.5°	28.7	26.3	26.3	23.9	26.3
130°	23.9	21.5	21.5	21.5	23.9
132.5°	21.5	19.1	19.1	19.1	21.5
135°	19.1	16.7	16.7	16.7	19.1
137.5°	16.7	14.3	11.9	14.3	16.7
140°	14.3	11.9	9.6	11.9	14.3
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)