

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: P384134

Luminaire Tested: **22ID-50-L830-CFD1**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384134
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: 22ID-50-L830-CFD1
Description: 2X2 IN DEPTH TROFFER WITH 1INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

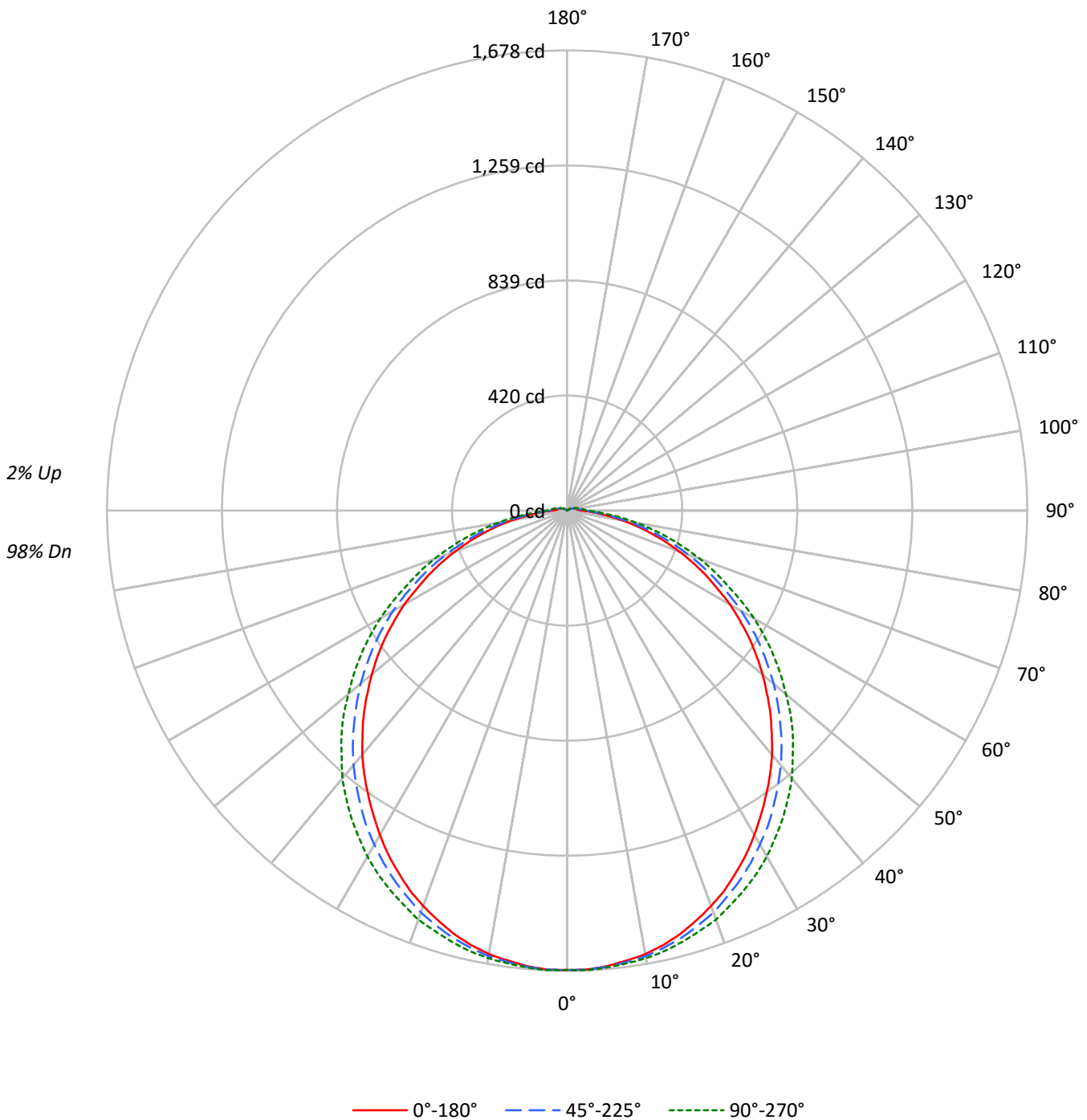
Lumens per Lamp: N/A
Luminaire Lumens: 4961.2 lumens
Efficiency: N/A
Efficacy: 120.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.08')
CIE Type: Direct

Input Watts (W): 41.1
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



TEST NUMBER: P384134
CATALOG NUMBER: 22ID-50-L830-CFD1

Luminous Intensity Polar Plot





TEST NUMBER: P384134

CATALOG NUMBER: 22ID-50-L830-CFD1

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°	4508	4508	4508
5°	4488	4488	4502
10°	4455	4462	4496
15°	4401	4422	4483
20°	4328	4372	4477
25°	4242	4303	4447
30°	4144	4225	4419
35°	4039	4142	4376
40°	3944	4058	4328
45°	3832	3950	4254
50°	3712	3847	4153
55°	3586	3723	4066
60°	3447	3587	3952
65°	3264	3384	3764
70°	3054	3185	3640
75°	2807	2916	3440
80°	2522	2601	3217
85°	2263	2321	3052



TEST NUMBER: P384134

CATALOG NUMBER: 22ID-50-L830-CFD1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.6	3.2
10°-20°	454.8	9.2
20°-30°	686.6	13.8
30°-40°	822.7	16.6
40°-50°	850.5	17.1
50°-60°	770.2	15.5
60°-70°	596.0	12.0
70°-80°	366.1	7.4
80°-90°	145.5	2.9
90°-100°	53.1	1.1
100°-110°	32.6	0.7
110°-120°	16.8	0.3
120°-130°	7.1	0.1
130°-140°	0.5	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°	1300.0	26.2
0°-40°	2122.7	42.8
0°-60°	3743.5	75.5
0°-90°	4851.1	97.8
90°-120°	102.5	2.1
90°-150°	110.1	2.2
90°-180°	110.0	2.2
0°-180°	4961.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1675	1675	1675	1675	1675	
5°	1668	1668	1670	1670	1673	158
15°	1597	1600	1612	1622	1627	450
25°	1456	1466	1489	1514	1527	671
35°	1265	1280	1313	1348	1371	792
45°	1049	1061	1099	1144	1164	808
55°	810	828	860	898	918	724
65°	558	571	599	629	644	552
75°	312	327	342	365	382	332
85°	108	116	126	138	146	108
90°	50	58	63	70	76	30
95°	38	43	48	53	58	30
105°	28	28	30	33	35	29
115°	18	15	15	18	20	18
125°	10	8	5	8	10	9
135°	0	0	0	0	0	1
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



TEST NUMBER: P384134

CATALOG NUMBER: 22ID-50-L830-CFD1

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1675.1	1675.1	1675.1	1675.1	1675.1
2.5°	1675.1	1672.6	1675.1	1675.1	1677.6
5°	1667.6	1667.6	1670.1	1670.1	1672.6
7.5°	1655.0	1655.0	1660.0	1662.6	1665.1
10°	1642.4	1642.4	1650.0	1652.5	1657.5
12.5°	1622.3	1624.8	1632.4	1639.9	1644.9
15°	1597.2	1599.7	1612.2	1622.3	1627.3
17.5°	1567.0	1572.0	1587.1	1602.2	1607.2
20°	1534.3	1541.8	1559.4	1577.0	1587.1
22.5°	1499.1	1504.1	1524.2	1546.9	1556.9
25°	1456.3	1466.4	1489.0	1514.2	1526.7
27.5°	1413.5	1423.6	1448.8	1478.9	1494.0
30°	1365.8	1375.8	1406.0	1438.7	1456.3
32.5°	1315.5	1328.0	1363.2	1395.9	1413.5
35°	1265.2	1280.2	1312.9	1348.2	1370.8
37.5°	1214.8	1227.4	1262.6	1300.4	1323.0
40°	1162.0	1174.6	1212.3	1250.1	1275.2
42.5°	1104.2	1119.3	1157.0	1197.2	1217.4
45°	1048.8	1061.4	1099.1	1144.4	1164.5
47.5°	988.5	1006.1	1041.3	1084.1	1106.7
50°	930.6	945.7	983.4	1023.7	1041.3
52.5°	870.3	885.4	920.6	960.8	980.9
55°	809.9	827.5	860.2	897.9	918.1
57.5°	747.0	764.6	797.3	830.0	852.7
60°	686.7	704.3	734.4	767.1	787.3
62.5°	618.7	633.8	666.5	701.7	716.8
65°	558.4	571.0	598.6	628.8	643.9
67.5°	495.5	510.6	535.7	563.4	581.0
70°	432.6	450.2	470.3	495.5	515.6
72.5°	372.3	387.3	404.9	430.1	447.7
75°	311.9	327.0	342.1	364.7	382.3
77.5°	259.1	266.6	281.7	301.8	319.4
80°	201.2	211.3	223.9	244.0	256.6
82.5°	150.9	161.0	171.0	186.1	198.7
85°	108.2	115.7	125.8	138.3	145.9
87.5°	72.9	80.5	88.0	98.1	105.6
90°	50.3	57.8	62.9	70.4	75.5
92.5°	42.8	47.8	52.8	57.8	62.9
95°	37.7	42.8	47.8	52.8	57.8
97.5°	35.2	37.7	42.8	47.8	50.3
100°	32.7	35.2	37.7	42.8	45.3
102.5°	30.2	30.2	35.2	37.7	40.2
105°	27.7	27.7	30.2	32.7	35.2
107.5°	25.2	25.2	27.7	27.7	32.7
110°	22.6	20.1	22.6	22.6	27.7



TEST NUMBER: P384134

CATALOG NUMBER: 22ID-50-L830-CFD1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	20.1	17.6	20.1	20.1	22.6
115°	17.6	15.1	15.1	17.6	20.1
117.5°	15.1	12.6	12.6	12.6	17.6
120°	15.1	12.6	10.1	10.1	15.1
122.5°	12.6	10.1	7.5	10.1	12.6
125°	10.1	7.5	5.0	7.5	10.1
127.5°	7.5	7.5	2.5	5.0	7.5
130°	7.5	5.0	2.5	5.0	5.0
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)