

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: P384278

Luminaire Tested: **22ID-20-L830-CFD2**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384278
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: 22ID-20-L830-CFD2
Description: 2X2 IN DEPTH TROFFER WITH 2INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

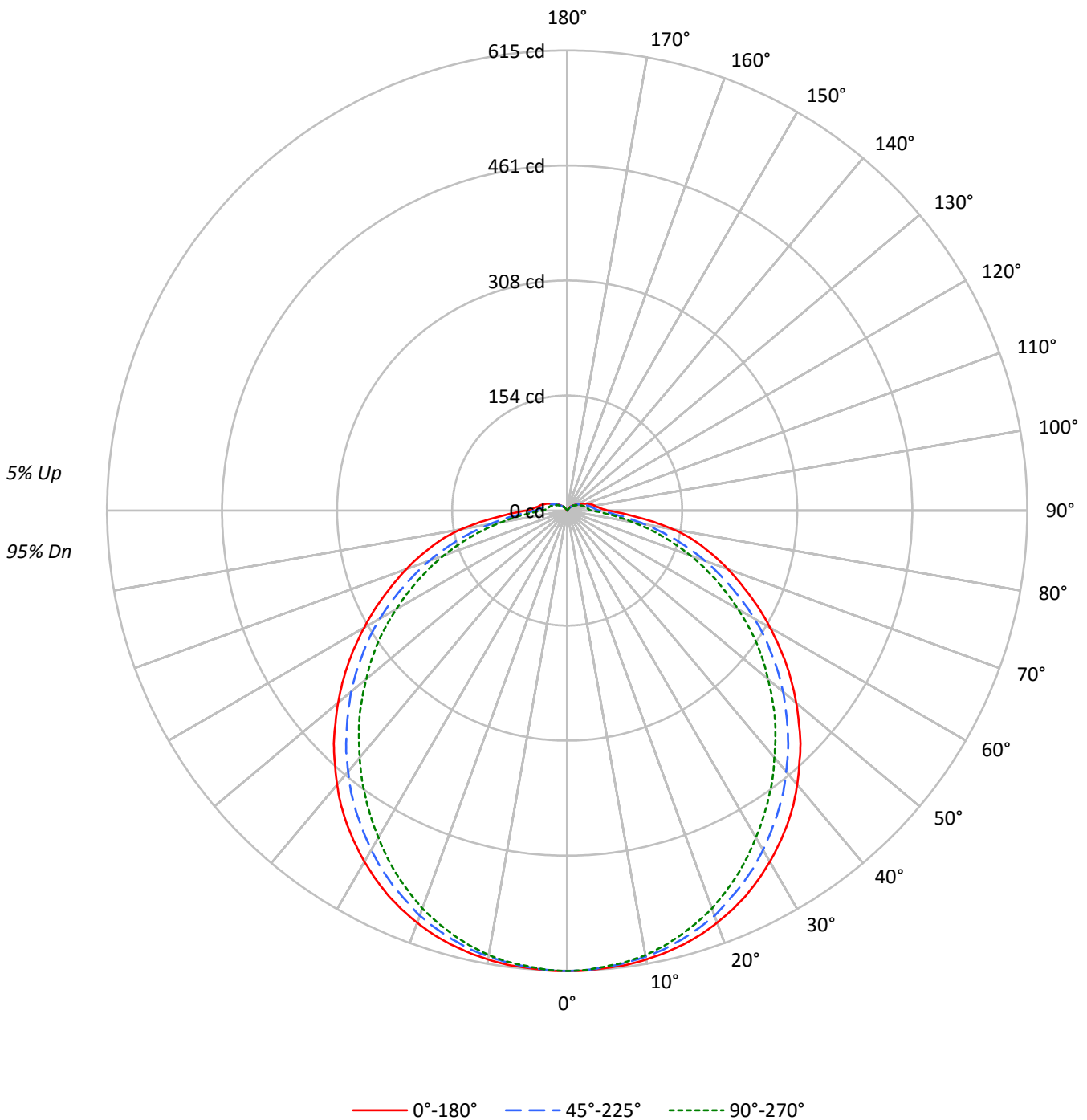
Lumens per Lamp: N/A
Luminaire Lumens: 1995.9 lumens
Efficiency: N/A
Efficacy: 122.4 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.22 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.17')
CIE Type: Direct

Input Watts (W): 16.3
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



TEST NUMBER: P384278
CATALOG NUMBER: 22ID-20-L830-CFD2

Luminous Intensity Polar Plot





TEST NUMBER: P384278

CATALOG NUMBER: 22ID-20-L830-CFD2

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°	1656	1656	1656
5°	1645	1637	1639
10°	1641	1620	1625
15°	1636	1602	1600
20°	1629	1582	1573
25°	1621	1553	1537
30°	1607	1524	1496
35°	1591	1492	1457
40°	1571	1455	1415
45°	1550	1420	1380
50°	1523	1383	1335
55°	1499	1339	1296
60°	1473	1292	1241
65°	1458	1229	1186
70°	1464	1167	1122
75°	1493	1084	1038
80°	1515	973	932
85°	1433	875	860



TEST NUMBER: P384278

CATALOG NUMBER: 22ID-20-L830-CFD2

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.2	2.9
10°-20°	167.5	8.4
20°-30°	254.4	12.7
30°-40°	307.3	15.4
40°-50°	321.6	16.1
50°-60°	298.4	15.0
60°-70°	241.7	12.1
70°-80°	163.1	8.2
80°-90°	78.8	3.9
90°-100°	39.6	2.0
100°-110°	28.8	1.4
110°-120°	19.3	1.0
120°-130°	11.2	0.6
130°-140°	5.6	0.3
140°-150°	0.4	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	480.1	24.1
0°-40°	787.3	39.4
0°-60°	1407.3	70.5
0°-90°	1890.9	94.7
90°-120°	87.7	4.4
90°-150°	105.0	5.3
90°-180°	105.0	5.3
0°-180°	1995.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	615	615	615	615	615	
5°	613	612	612	611	611	58
15°	600	597	593	589	587	170
25°	567	562	552	542	538	261
35°	513	506	492	476	469	321
45°	441	433	417	400	393	340
55°	358	350	333	317	309	320
65°	270	260	242	229	220	268
75°	188	169	150	139	131	198
85°	91	79	66	60	54	86
90°	54	49	42	38	32	31
95°	43	40	36	32	28	34
105°	32	30	27	24	22	34
115°	22	20	20	17	17	22
125°	14	12	13	11	12	12
135°	8	7	7	7	8	6
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



TEST NUMBER: P384278

CATALOG NUMBER: 22ID-20-L830-CFD2

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	615.4	615.4	615.4	615.4	615.4
2.5°	615.4	614.4	614.4	614.4	614.4
5°	613.4	612.4	612.4	611.3	611.3
7.5°	612.4	610.3	609.3	608.3	608.3
10°	609.3	607.3	605.3	603.3	603.3
12.5°	605.3	603.3	600.3	596.2	596.2
15°	600.3	597.2	593.2	589.2	587.2
17.5°	594.2	591.2	585.2	579.1	577.1
20°	586.2	582.1	576.1	568.0	566.0
22.5°	577.1	573.1	564.0	556.0	551.9
25°	567.0	562.0	551.9	541.9	537.8
27.5°	554.9	549.9	538.8	526.7	521.7
30°	541.9	535.8	523.7	510.6	504.6
32.5°	527.8	520.7	507.6	493.5	487.5
35°	512.6	505.6	491.5	476.4	469.3
37.5°	496.5	489.5	474.4	458.3	451.2
40°	478.4	471.3	455.2	439.1	431.1
42.5°	459.3	453.2	437.1	420.0	411.9
45°	441.1	433.1	417.0	399.8	392.8
47.5°	420.0	413.9	396.8	379.7	371.6
50°	399.8	392.8	376.7	359.6	350.5
52.5°	378.7	372.6	355.5	338.4	330.3
55°	357.5	349.5	333.4	317.3	309.2
57.5°	335.4	328.3	312.2	297.1	287.0
60°	313.2	306.2	289.1	275.0	263.9
62.5°	292.1	284.0	265.9	250.8	241.7
65°	269.9	259.8	241.7	228.6	219.6
67.5°	248.8	236.7	218.6	206.5	197.4
70°	228.6	214.5	196.4	184.3	175.2
72.5°	208.5	191.4	172.2	161.1	153.1
75°	188.3	169.2	150.1	139.0	130.9
77.5°	168.2	146.0	126.9	117.8	109.8
80°	144.0	122.9	104.7	96.7	88.6
82.5°	116.8	99.7	84.6	76.5	70.5
85°	90.6	78.6	66.5	60.4	54.4
87.5°	70.5	61.4	52.4	47.3	42.3
90°	54.4	49.4	42.3	38.3	32.2
92.5°	47.3	43.3	38.3	34.2	29.2
95°	43.3	40.3	36.3	32.2	28.2
97.5°	39.3	37.3	33.2	30.2	26.2
100°	37.3	34.2	31.2	28.2	25.2
102.5°	35.3	32.2	29.2	26.2	24.2
105°	32.2	30.2	27.2	24.2	22.2
107.5°	30.2	27.2	25.2	22.2	21.2
110°	27.2	25.2	23.2	21.2	20.1



TEST NUMBER: P384278

CATALOG NUMBER: 22ID-20-L830-CFD2

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	24.2	23.2	21.2	19.1	18.1
115°	22.2	20.1	20.1	17.1	17.1
117.5°	20.1	18.1	18.1	16.1	16.1
120°	17.1	16.1	16.1	14.1	14.1
122.5°	15.1	14.1	14.1	13.1	13.1
125°	14.1	12.1	13.1	11.1	12.1
127.5°	12.1	11.1	11.1	10.1	11.1
130°	10.1	9.1	9.1	9.1	10.1
132.5°	9.1	8.1	8.1	8.1	9.1
135°	8.1	7.1	7.1	7.1	8.1
137.5°	7.1	6.0	5.0	6.0	7.1
140°	6.0	5.0	4.0	5.0	6.0
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)