

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: P384617

Luminaire Tested: **22ID-20-L850-CFD3**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384617
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: 22ID-20-L850-CFD3
Description: 2X2 IN DEPTH TROFFER WITH 3INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

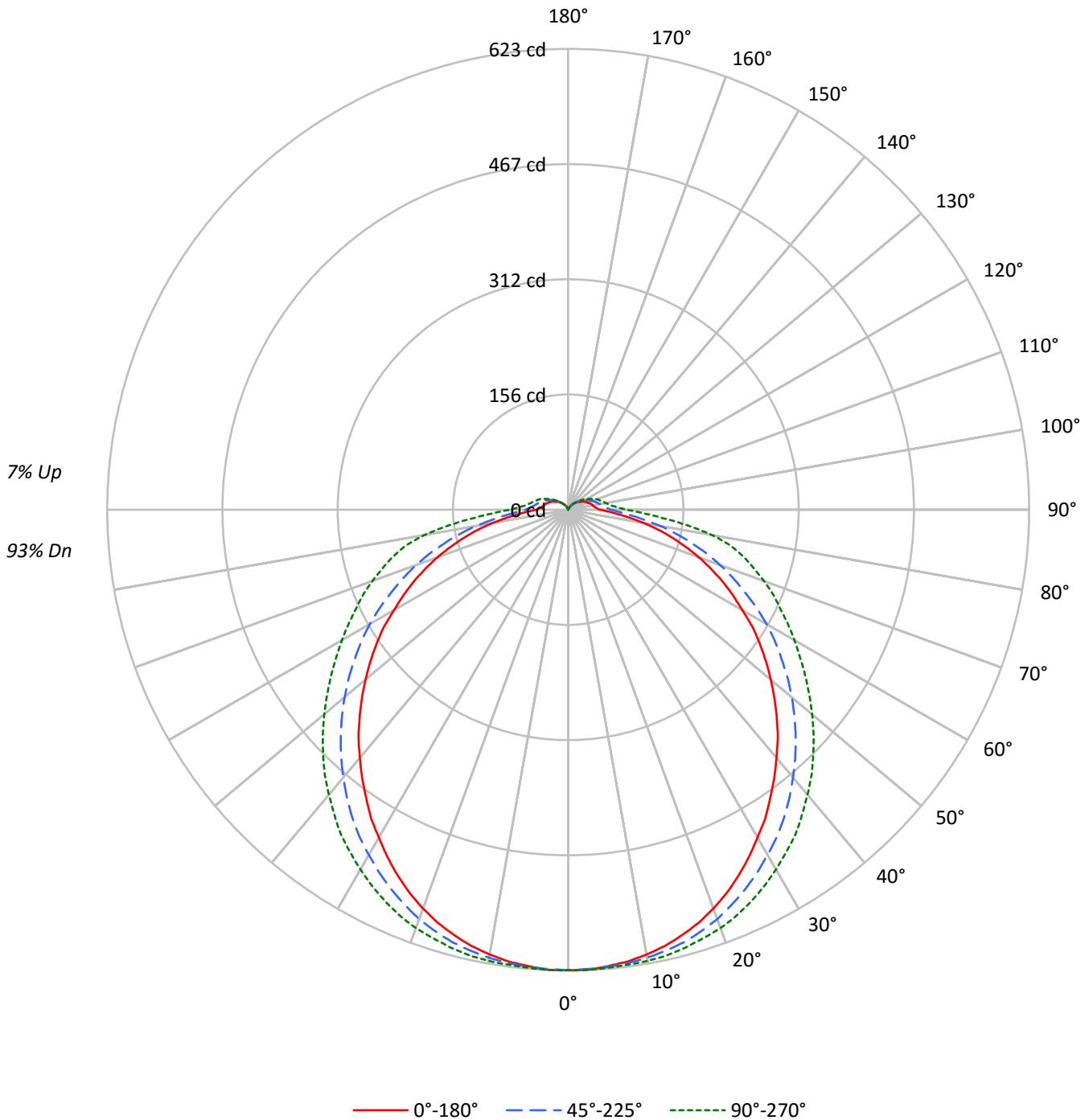
Lumens per Lamp: N/A
Luminaire Lumens: 2178.6 lumens
Efficiency: N/A
Efficacy: 133.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.34 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.25')
CIE Type: Direct

Input Watts (W): 16.3
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: P384617
CATALOG NUMBER: 22ID-20-L850-CFD3

Luminous Intensity Polar Plot





TEST NUMBER: P384617

CATALOG NUMBER: 22ID-20-L850-CFD3

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°	1675	1675	1675
5°	1655	1650	1661
10°	1632	1630	1656
15°	1605	1610	1652
20°	1571	1584	1649
25°	1530	1553	1640
30°	1483	1519	1628
35°	1438	1486	1618
40°	1392	1446	1600
45°	1349	1405	1584
50°	1303	1364	1568
55°	1259	1319	1557
60°	1202	1276	1562
65°	1156	1214	1588
70°	1101	1157	1648
75°	1024	1076	1741
80°	936	975	1793
85°	843	856	1616



TEST NUMBER: P384617

CATALOG NUMBER: 22ID-20-L850-CFD3

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.0	2.7
10°-20°	170.6	7.8
20°-30°	260.6	12.0
30°-40°	317.2	14.6
40°-50°	335.3	15.4
50°-60°	316.5	14.5
60°-70°	266.3	12.2
70°-80°	192.0	8.8
80°-90°	101.3	4.6
90°-100°	54.2	2.5
100°-110°	41.2	1.9
110°-120°	29.9	1.4
120°-130°	18.7	0.9
130°-140°	10.1	0.5
140°-150°	4.4	0.2
150°-160°	1.2	0.1
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	490.2	22.5
0°-40°	807.5	37.1
0°-60°	1459.3	67.0
0°-90°	2018.9	92.7
90°-120°	125.2	5.7
90°-150°	158.5	7.3
90°-180°	160.0	7.3
0°-180°	2178.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	623	623	623	623	623	
5°	619	619	620	620	622	59
15°	595	598	605	610	613	168
25°	545	552	566	579	584	251
35°	476	487	508	528	536	298
45°	399	411	435	458	468	308
55°	316	330	352	378	391	283
65°	230	243	263	296	316	228
75°	144	156	172	205	246	153
85°	66	75	84	104	127	62
90°	42	50	58	68	78	24
95°	37	42	49	55	60	29
105°	32	35	39	44	46	33
115°	25	27	30	33	35	25
125°	18	18	22	22	23	17
135°	13	12	13	13	14	10
145°	8	6	6	6	8	5
155°	3	3	1	2	3	2
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P384617

CATALOG NUMBER: 22ID-20-L850-CFD3

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	622.6	622.6	622.6	622.6	622.6
2.5°	622.6	621.5	621.5	621.5	622.6
5°	619.3	619.3	620.4	620.4	621.5
7.5°	616.0	616.0	618.2	619.3	620.4
10°	610.6	611.7	615.0	617.1	619.3
12.5°	604.1	605.2	610.6	615.0	617.1
15°	595.4	597.6	605.2	609.5	612.8
17.5°	585.6	588.9	597.6	604.1	607.4
20°	573.7	578.0	588.9	597.6	601.9
22.5°	560.6	565.0	578.0	588.9	594.3
25°	545.4	551.9	566.1	579.1	584.5
27.5°	529.1	536.7	553.0	568.2	573.7
30°	511.7	520.4	538.9	555.2	561.7
32.5°	495.4	504.1	524.8	542.2	548.7
35°	475.9	486.8	508.5	528.0	535.6
37.5°	457.4	468.3	491.1	511.7	519.3
40°	437.9	448.7	472.6	495.4	503.1
42.5°	419.4	430.3	454.2	478.1	486.8
45°	398.7	410.7	434.6	458.5	468.3
47.5°	378.1	390.1	415.0	440.0	449.8
50°	357.5	370.5	394.4	419.4	430.3
52.5°	336.8	349.9	373.8	399.8	410.7
55°	316.2	330.3	352.0	378.1	391.1
57.5°	295.5	309.7	331.4	358.5	371.6
60°	271.6	287.9	309.7	337.9	353.1
62.5°	251.0	265.1	286.8	316.2	334.6
65°	230.3	243.4	262.9	295.5	316.2
67.5°	208.6	222.7	241.2	271.6	299.9
70°	188.0	199.9	218.4	249.9	281.4
72.5°	166.2	178.2	195.6	228.2	262.9
75°	144.5	156.5	171.7	205.3	245.5
77.5°	124.9	134.7	148.9	181.4	224.9
80°	103.2	113.0	126.0	155.4	197.7
82.5°	83.7	92.4	103.2	129.3	163.0
85°	66.3	75.0	83.7	104.3	127.1
87.5°	53.2	59.8	68.4	83.7	98.9
90°	42.4	50.0	57.6	68.4	78.2
92.5°	39.1	45.6	52.2	60.8	67.4
95°	36.9	42.4	48.9	55.4	59.8
97.5°	34.8	40.2	45.6	52.2	55.4
100°	33.7	38.0	43.5	48.9	51.1
102.5°	32.6	35.9	41.3	45.6	48.9
105°	31.5	34.8	39.1	43.5	45.6
107.5°	29.3	32.6	36.9	41.3	43.5
110°	28.2	30.4	34.8	38.0	41.3



TEST NUMBER: P384617

CATALOG NUMBER: 22ID-20-L850-CFD3

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	27.2	29.3	32.6	35.9	38.0
115°	25.0	27.2	30.4	32.6	34.8
117.5°	23.9	25.0	28.2	29.3	31.5
120°	21.7	22.8	26.1	27.2	28.2
122.5°	19.6	20.6	23.9	23.9	26.1
125°	18.5	18.5	21.7	21.7	22.8
127.5°	17.4	17.4	19.6	19.6	20.6
130°	15.2	15.2	17.4	17.4	17.4
132.5°	14.1	13.0	15.2	15.2	16.3
135°	13.0	12.0	13.0	13.0	14.1
137.5°	10.9	10.9	12.0	10.9	12.0
140°	9.8	8.7	9.8	9.8	10.9
142.5°	8.7	7.6	8.7	7.6	8.7
145°	7.6	6.5	6.5	6.5	7.6
147.5°	6.5	5.4	5.4	5.4	6.5
150°	5.4	4.3	4.3	4.3	5.4
152.5°	4.3	3.3	2.2	3.3	4.3
155°	3.3	3.3	1.1	2.2	3.3
157.5°	2.2	2.2	0.0	1.1	2.2
160°	1.1	1.1	0.0	1.1	1.1
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)