

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: P384229

Luminaire Tested: **14ID-25-L850-CFD2**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384229
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-25-L850-CFD2
Description: 1X4 IN DEPTH TROFFER WITH 2INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

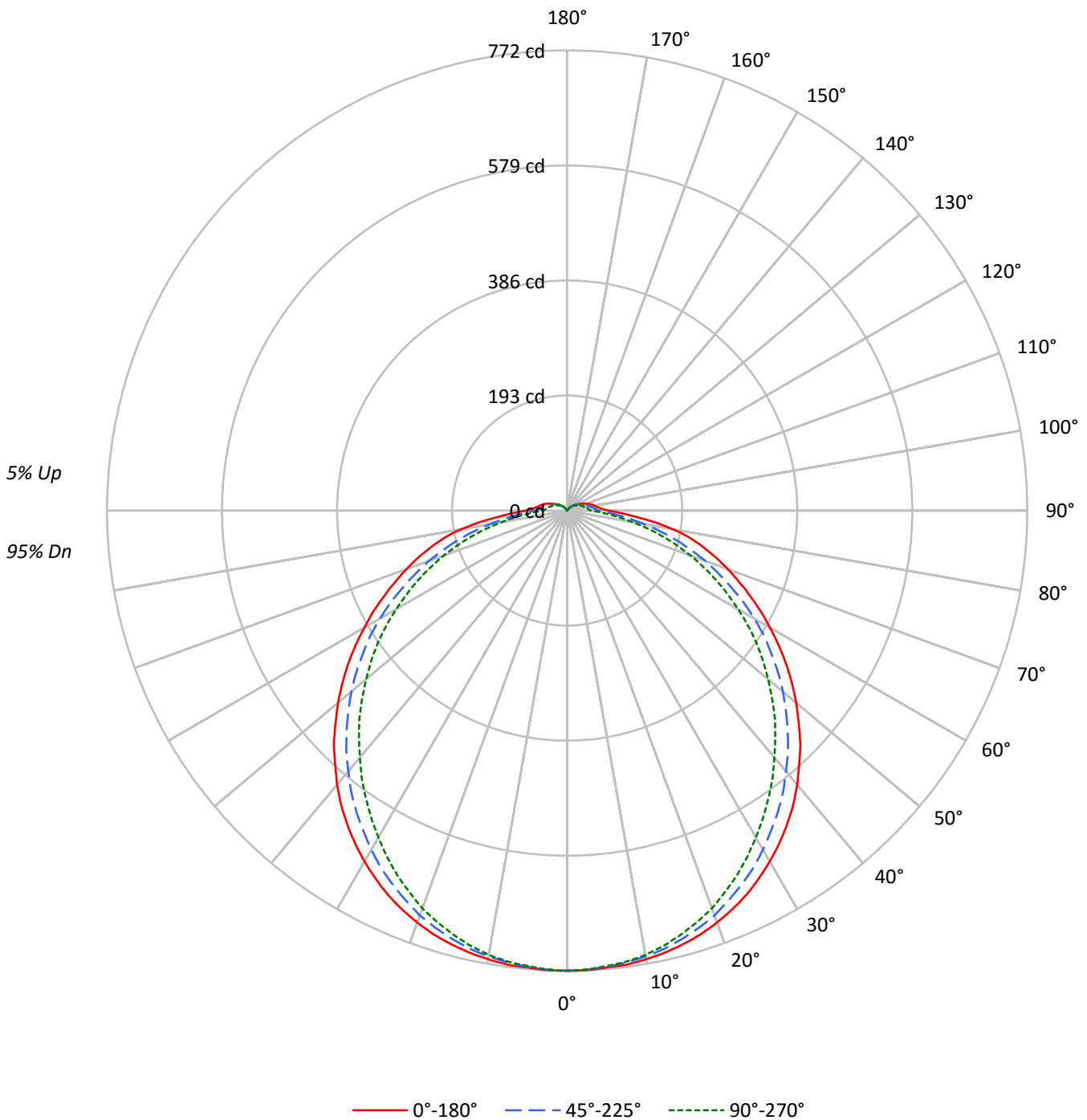
Lumens per Lamp: N/A
Luminaire Lumens: 2503.9 lumens
Efficiency: N/A
Efficacy: 122.1 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.22 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.17')
CIE Type: Direct

Input Watts (W): 20.5
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: P384229
CATALOG NUMBER: 14ID-25-L850-CFD2

Luminous Intensity Polar Plot





TEST NUMBER: P384229

CATALOG NUMBER: 14ID-25-L850-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°	2077	2077	2077
5°	2071	2049	2042
10°	2073	2023	2009
15°	2075	1995	1964
20°	2074	1964	1917
25°	2072	1924	1859
30°	2063	1881	1794
35°	2053	1836	1732
40°	2037	1785	1667
45°	2022	1735	1607
50°	2001	1683	1536
55°	1986	1621	1470
60°	1972	1555	1382
65°	1979	1467	1292
70°	2025	1380	1186
75°	2126	1263	1053
80°	2265	1109	886
85°	2378	959	725



TEST NUMBER: P384229

CATALOG NUMBER: 14ID-25-L850-CFD2

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.1	2.9
10°-20°	210.1	8.4
20°-30°	319.1	12.7
30°-40°	385.5	15.4
40°-50°	403.4	16.1
50°-60°	374.3	15.0
60°-70°	303.2	12.1
70°-80°	204.6	8.2
80°-90°	98.9	3.9
90°-100°	49.7	2.0
100°-110°	36.1	1.4
110°-120°	24.2	1.0
120°-130°	14.0	0.6
130°-140°	7.1	0.3
140°-150°	0.5	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	602.3	24.1
0°-40°	987.7	39.4
0°-60°	1765.5	70.5
0°-90°	2372.2	94.7
90°-120°	110.0	4.4
90°-150°	131.6	5.3
90°-180°	132.0	5.3
0°-180°	2503.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	772	772	772	772	772	
5°	770	768	768	767	767	73
15°	753	749	744	739	737	213
25°	711	705	692	680	675	328
35°	643	634	617	598	589	402
45°	553	543	523	502	493	426
55°	448	438	418	398	388	401
65°	339	326	303	287	275	336
75°	236	212	188	174	164	249
85°	114	99	83	76	68	107
90°	68	62	53	48	40	39
95°	54	50	46	40	35	43
105°	40	38	34	30	28	43
115°	28	25	25	22	22	28
125°	18	15	16	14	15	16
135°	10	9	9	9	10	8
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: P384229

CATALOG NUMBER: 14ID-25-L850-CFD2

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	772.0	772.0	772.0	772.0	772.0
2.5°	772.0	770.7	770.7	770.7	770.7
5°	769.5	768.2	768.2	766.9	766.9
7.5°	768.2	765.7	764.4	763.2	763.2
10°	764.4	761.9	759.4	756.8	756.8
12.5°	759.4	756.8	753.0	748.0	748.0
15°	753.0	749.3	744.2	739.1	736.6
17.5°	745.5	741.7	734.1	726.5	724.0
20°	735.4	730.3	722.7	712.6	710.1
22.5°	724.0	718.9	707.6	697.5	692.4
25°	711.4	705.0	692.4	679.8	674.7
27.5°	696.2	689.9	676.0	660.8	654.5
30°	679.8	672.2	657.0	640.6	633.0
32.5°	662.1	653.2	636.8	619.1	611.5
35°	643.1	634.3	616.6	597.6	588.8
37.5°	622.9	614.1	595.1	574.9	566.0
40°	600.2	591.3	571.1	550.9	540.8
42.5°	576.2	568.6	548.4	526.9	516.8
45°	553.4	543.3	523.1	501.6	492.8
47.5°	526.9	519.3	497.8	476.3	466.2
50°	501.6	492.8	472.5	451.1	439.7
52.5°	475.1	467.5	446.0	424.5	414.4
55°	448.5	438.4	418.2	398.0	387.9
57.5°	420.7	411.9	391.7	372.7	360.1
60°	392.9	384.1	362.6	344.9	331.0
62.5°	366.4	356.3	333.6	314.6	303.2
65°	338.6	326.0	303.2	286.8	275.4
67.5°	312.1	296.9	274.2	259.0	247.6
70°	286.8	269.1	246.4	231.2	219.8
72.5°	261.5	240.1	216.1	202.2	192.1
75°	236.3	212.3	188.3	174.4	164.3
77.5°	211.0	183.2	159.2	147.8	137.7
80°	180.7	154.1	131.4	121.3	111.2
82.5°	146.6	125.1	106.1	96.0	88.4
85°	113.7	98.6	83.4	75.8	68.2
87.5°	88.4	77.1	65.7	59.4	53.1
90°	68.2	61.9	53.1	48.0	40.4
92.5°	59.4	54.3	48.0	43.0	36.6
95°	54.3	50.5	45.5	40.4	35.4
97.5°	49.3	46.7	41.7	37.9	32.9
100°	46.7	43.0	39.2	35.4	31.6
102.5°	44.2	40.4	36.6	32.9	30.3
105°	40.4	37.9	34.1	30.3	27.8
107.5°	37.9	34.1	31.6	27.8	26.5
110°	34.1	31.6	29.1	26.5	25.3



TEST NUMBER: P384229

CATALOG NUMBER: 14ID-25-L850-CFD2

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	30.3	29.1	26.5	24.0	22.7
115°	27.8	25.3	25.3	21.5	21.5
117.5°	25.3	22.7	22.7	20.2	20.2
120°	21.5	20.2	20.2	17.7	17.7
122.5°	19.0	17.7	17.7	16.4	16.4
125°	17.7	15.2	16.4	13.9	15.2
127.5°	15.2	13.9	13.9	12.6	13.9
130°	12.6	11.4	11.4	11.4	12.6
132.5°	11.4	10.1	10.1	10.1	11.4
135°	10.1	8.8	8.8	8.8	10.1
137.5°	8.8	7.6	6.3	7.6	8.8
140°	7.6	6.3	5.1	6.3	7.6
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)