

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: P384094

Luminaire Tested: **14ID-70-L830-CFD1**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384094
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: 14ID-70-L830-CFD1
Description: 1X4 IN DEPTH TROFFER WITH 1INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

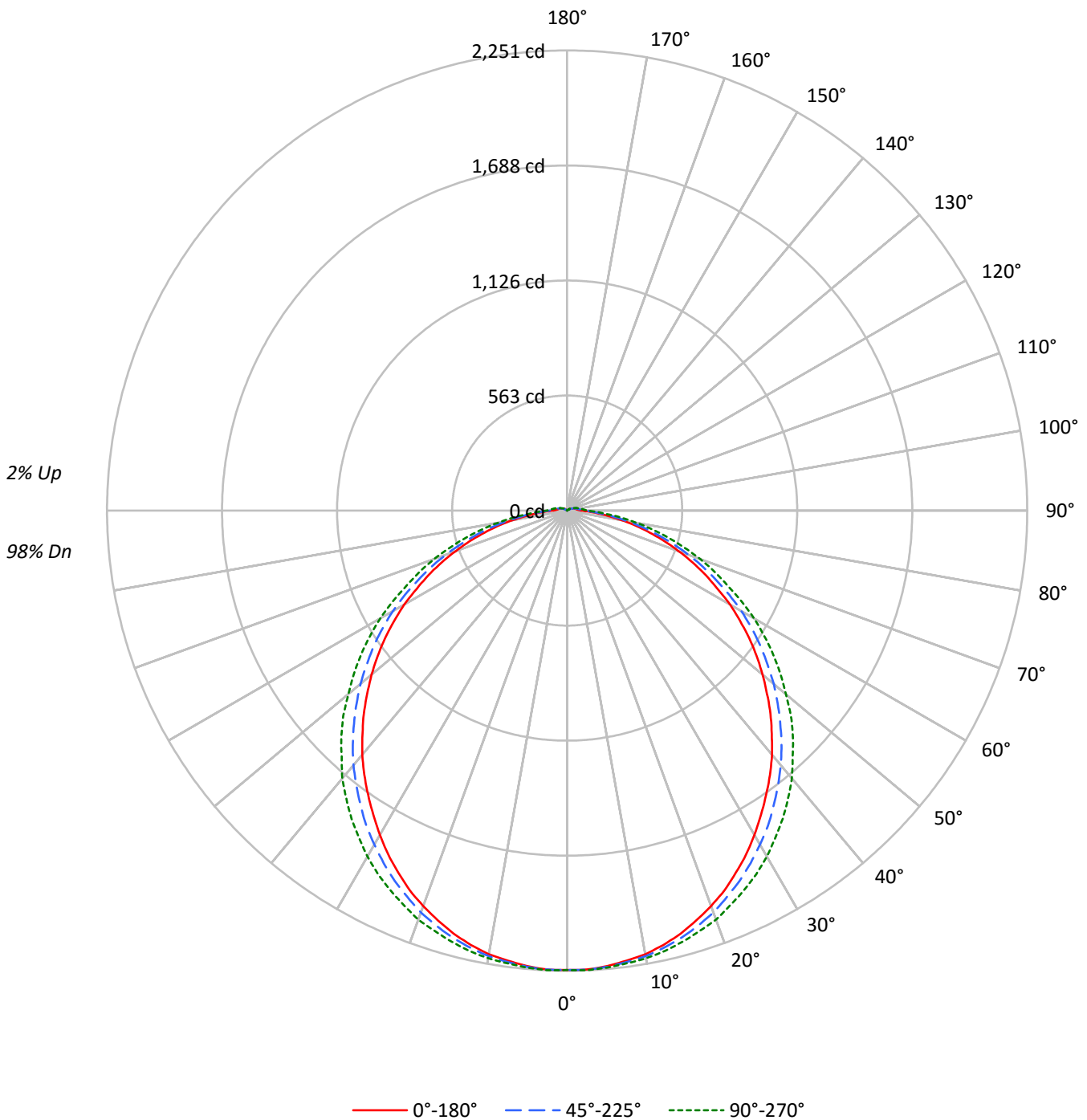
Lumens per Lamp: N/A
Luminaire Lumens: 6656.0 lumens
Efficiency: N/A
Efficacy: 101.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.08')
CIE Type: Direct

Input Watts (W): 65.6
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: P384094
CATALOG NUMBER: 14ID-70-L830-CFD1

Luminous Intensity Polar Plot





TEST NUMBER: P384094

CATALOG NUMBER: 14ID-70-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°	6048	6048	6048
5°	6032	6014	6018
10°	5999	5971	5989
15°	5937	5909	5950
20°	5850	5835	5918
25°	5745	5735	5854
30°	5626	5622	5792
35°	5496	5503	5709
40°	5382	5381	5617
45°	5246	5227	5489
50°	5100	5078	5320
55°	4951	4899	5164
60°	4785	4703	4968
65°	4566	4416	4667
70°	4319	4129	4429
75°	4036	3743	4068
80°	3742	3283	3623
85°	3619	2828	3095



TEST NUMBER: P384094

CATALOG NUMBER: 14ID-70-L830-CFD1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.8	3.2
10°-20°	610.1	9.2
20°-30°	921.2	13.8
30°-40°	1103.7	16.6
40°-50°	1141.1	17.1
50°-60°	1033.4	15.5
60°-70°	799.6	12.0
70°-80°	491.2	7.4
80°-90°	195.2	2.9
90°-100°	71.2	1.1
100°-110°	43.7	0.7
110°-120°	22.5	0.3
120°-130°	9.6	0.1
130°-140°	0.6	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°	1744.1	26.2
0°-40°	2847.8	42.8
0°-60°	5022.3	75.5
0°-90°	6508.3	97.8
90°-120°	137.4	2.1
90°-150°	147.7	2.2
90°-180°	148.0	2.2
0°-180°	6656.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2247	2247	2247	2247	2247	
5°	2237	2237	2241	2241	2244	212
15°	2143	2146	2163	2176	2183	604
25°	1954	1967	1998	2031	2048	900
35°	1697	1718	1762	1809	1839	1063
45°	1407	1424	1475	1535	1562	1085
55°	1087	1110	1154	1205	1232	971
65°	749	766	803	844	864	741
75°	418	439	459	489	513	446
85°	145	155	169	186	196	145
90°	68	78	84	94	101	40
95°	51	57	64	71	78	40
105°	37	37	40	44	47	39
115°	24	20	20	24	27	24
125°	14	10	7	10	14	13
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: P384094

CATALOG NUMBER: 14ID-70-L830-CFD1

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2247.4	2247.4	2247.4	2247.4	2247.4
2.5°	2247.4	2244.0	2247.4	2247.4	2250.7
5°	2237.2	2237.2	2240.6	2240.6	2244.0
7.5°	2220.4	2220.4	2227.1	2230.5	2233.9
10°	2203.5	2203.5	2213.6	2217.0	2223.8
12.5°	2176.5	2179.9	2190.0	2200.1	2206.9
15°	2142.8	2146.1	2163.0	2176.5	2183.3
17.5°	2102.3	2109.0	2129.3	2149.5	2156.3
20°	2058.4	2068.5	2092.1	2115.8	2129.3
22.5°	2011.2	2017.9	2044.9	2075.3	2088.8
25°	1953.8	1967.3	1997.7	2031.4	2048.3
27.5°	1896.4	1909.9	1943.7	1984.2	2004.4
30°	1832.3	1845.8	1886.3	1930.2	1953.8
32.5°	1764.8	1781.7	1828.9	1872.8	1896.4
35°	1697.3	1717.6	1761.5	1808.7	1839.1
37.5°	1629.9	1646.7	1694.0	1744.6	1775.0
40°	1559.0	1575.9	1626.5	1677.1	1710.8
42.5°	1481.4	1501.6	1552.2	1606.2	1633.2
45°	1407.1	1424.0	1474.6	1535.4	1562.4
47.5°	1326.2	1349.8	1397.0	1454.4	1484.8
50°	1248.5	1268.8	1319.4	1373.4	1397.0
52.5°	1167.6	1187.8	1235.0	1289.0	1316.0
55°	1086.6	1110.2	1154.1	1204.7	1231.7
57.5°	1002.2	1025.8	1069.7	1113.6	1143.9
60°	921.2	944.8	985.3	1029.2	1056.2
62.5°	830.1	850.4	894.2	941.5	961.7
65°	749.1	766.0	803.1	843.6	863.9
67.5°	664.8	685.0	718.8	755.9	779.5
70°	580.4	604.0	631.0	664.8	691.8
72.5°	499.4	519.7	543.3	577.0	600.6
75°	418.4	438.7	458.9	489.3	512.9
77.5°	347.6	357.7	377.9	404.9	428.6
80°	270.0	283.5	300.3	327.3	344.2
82.5°	202.5	216.0	229.5	249.7	266.6
85°	145.1	155.2	168.7	185.6	195.7
87.5°	97.9	108.0	118.1	131.6	141.7
90°	67.5	77.6	84.4	94.5	101.2
92.5°	57.4	64.1	70.9	77.6	84.4
95°	50.6	57.4	64.1	70.9	77.6
97.5°	47.2	50.6	57.4	64.1	67.5
100°	43.9	47.2	50.6	57.4	60.7
102.5°	40.5	40.5	47.2	50.6	54.0
105°	37.1	37.1	40.5	43.9	47.2
107.5°	33.7	33.7	37.1	37.1	43.9
110°	30.4	27.0	30.4	30.4	37.1



TEST NUMBER: P384094

CATALOG NUMBER: 14ID-70-L830-CFD1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	27.0	23.6	27.0	27.0	30.4
115°	23.6	20.2	20.2	23.6	27.0
117.5°	20.2	16.9	16.9	16.9	23.6
120°	20.2	16.9	13.5	13.5	20.2
122.5°	16.9	13.5	10.1	13.5	16.9
125°	13.5	10.1	6.7	10.1	13.5
127.5°	10.1	10.1	3.4	6.7	10.1
130°	10.1	6.7	3.4	6.7	6.7
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)