

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: P384602

Luminaire Tested: **14ID-75-L830-CFD3**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384602
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: 14ID-75-L830-CFD3
Description: 1X4 IN DEPTH TROFFER WITH 3INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

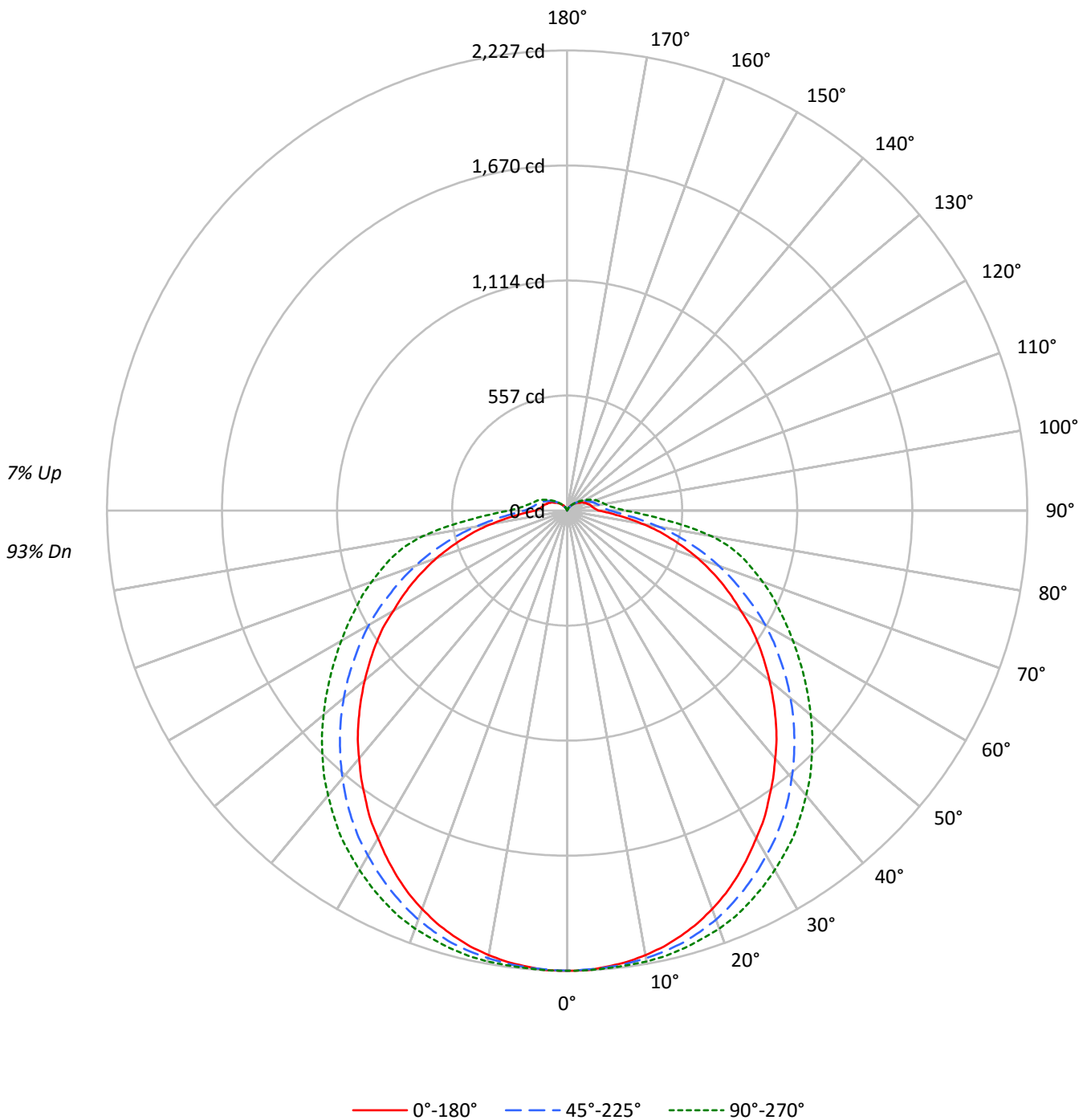
Lumens per Lamp: N/A
Luminaire Lumens: 7793.3 lumens
Efficiency: N/A
Efficacy: 109.9 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.25')
CIE Type: Direct

Input Watts (W): 70.9
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: P384602
CATALOG NUMBER: 14ID-75-L830-CFD3

Luminous Intensity Polar Plot





TEST NUMBER: P384602

CATALOG NUMBER: 14ID-75-L830-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°	5993	5993	5993
5°	5952	5881	5877
10°	5904	5786	5798
15°	5836	5694	5724
20°	5746	5584	5652
25°	5629	5451	5560
30°	5490	5312	5456
35°	5358	5175	5357
40°	5228	5010	5225
45°	5109	4846	5100
50°	4982	4675	4964
55°	4871	4491	4837
60°	4719	4311	4744
65°	4627	4064	4688
70°	4515	3824	4695
75°	4358	3499	4725
80°	4224	3101	4534
85°	4270	2621	3639



TEST NUMBER: P384602

CATALOG NUMBER: 14ID-75-L830-CFD3

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.2	2.7
10°-20°	610.2	7.8
20°-30°	932.3	12.0
30°-40°	1134.9	14.6
40°-50°	1199.5	15.4
50°-60°	1132.3	14.5
60°-70°	952.6	12.2
70°-80°	686.8	8.8
80°-90°	362.2	4.6
90°-100°	193.9	2.5
100°-110°	147.2	1.9
110°-120°	106.8	1.4
120°-130°	67.1	0.9
130°-140°	36.2	0.5
140°-150°	15.8	0.2
150°-160°	4.2	0.1
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	1753.7	22.5
0°-40°	2888.6	37.1
0°-60°	5220.4	67.0
0°-90°	7221.9	92.7
90°-120°	447.9	5.7
90°-150°	567.0	7.3
90°-180°	571.0	7.3
0°-180°	7793.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2227	2227	2227	2227	2227	
5°	2215	2215	2219	2219	2223	211
15°	2130	2138	2165	2180	2192	601
25°	1951	1974	2025	2072	2091	898
35°	1702	1741	1819	1889	1916	1066
45°	1426	1469	1555	1640	1675	1101
55°	1131	1182	1259	1353	1399	1011
65°	824	871	941	1057	1131	815
75°	517	560	614	735	878	549
85°	237	268	299	373	455	222
90°	152	179	206	245	280	87
95°	132	152	175	198	214	105
105°	113	124	140	156	163	118
115°	89	97	109	117	124	90
125°	66	66	78	78	82	59
135°	47	43	47	47	50	35
145°	27	23	23	23	27	17
155°	12	12	4	8	12	6
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P384602

CATALOG NUMBER: 14ID-75-L830-CFD3

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2227.0	2227.0	2227.0	2227.0	2227.0
2.5°	2227.0	2223.2	2223.2	2223.2	2227.0
5°	2215.4	2215.4	2219.3	2219.3	2223.2
7.5°	2203.7	2203.7	2211.5	2215.4	2219.3
10°	2184.3	2188.2	2199.8	2207.6	2215.4
12.5°	2161.0	2164.9	2184.3	2199.8	2207.6
15°	2129.9	2137.7	2164.9	2180.4	2192.1
17.5°	2094.9	2106.6	2137.7	2161.0	2172.6
20°	2052.1	2067.7	2106.6	2137.7	2153.2
22.5°	2005.5	2021.1	2067.7	2106.6	2126.0
25°	1951.1	1974.4	2024.9	2071.6	2091.0
27.5°	1892.8	1920.0	1978.3	2032.7	2052.1
30°	1830.6	1861.7	1927.8	1986.1	2009.4
32.5°	1772.3	1803.4	1877.3	1939.4	1962.8
35°	1702.4	1741.2	1819.0	1888.9	1916.1
37.5°	1636.3	1675.1	1756.8	1830.6	1857.8
40°	1566.3	1605.2	1690.7	1772.3	1799.5
42.5°	1500.2	1539.1	1624.6	1710.1	1741.2
45°	1426.4	1469.2	1554.7	1640.2	1675.1
47.5°	1352.6	1395.3	1484.7	1574.1	1609.1
50°	1278.7	1325.3	1410.9	1500.2	1539.1
52.5°	1204.9	1251.5	1337.0	1430.3	1469.2
55°	1131.0	1181.5	1259.3	1352.6	1399.2
57.5°	1057.2	1107.7	1185.4	1282.6	1329.2
60°	971.7	1030.0	1107.7	1208.7	1263.2
62.5°	897.8	948.3	1026.1	1131.0	1197.1
65°	824.0	870.6	940.6	1057.2	1131.0
67.5°	746.2	796.8	862.8	971.7	1072.7
70°	672.4	715.1	781.2	893.9	1006.6
72.5°	594.7	637.4	699.6	816.2	940.6
75°	516.9	559.7	614.1	734.6	878.4
77.5°	447.0	481.9	532.5	649.1	804.5
80°	369.2	404.2	450.9	555.8	707.4
82.5°	299.3	330.4	369.2	462.5	583.0
85°	237.1	268.2	299.3	373.1	454.7
87.5°	190.4	213.8	244.9	299.3	353.7
90°	151.6	178.8	206.0	244.9	279.8
92.5°	139.9	163.2	186.6	217.7	241.0
95°	132.1	151.6	174.9	198.2	213.8
97.5°	124.4	143.8	163.2	186.6	198.2
100°	120.5	136.0	155.5	174.9	182.7
102.5°	116.6	128.3	147.7	163.2	174.9
105°	112.7	124.4	139.9	155.5	163.2
107.5°	104.9	116.6	132.1	147.7	155.5
110°	101.1	108.8	124.4	136.0	147.7



TEST NUMBER: P384602

CATALOG NUMBER: 14ID-75-L830-CFD3

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	97.2	104.9	116.6	128.3	136.0
115°	89.4	97.2	108.8	116.6	124.4
117.5°	85.5	89.4	101.1	104.9	112.7
120°	77.7	81.6	93.3	97.2	101.1
122.5°	70.0	73.8	85.5	85.5	93.3
125°	66.1	66.1	77.7	77.7	81.6
127.5°	62.2	62.2	70.0	70.0	73.8
130°	54.4	54.4	62.2	62.2	62.2
132.5°	50.5	46.6	54.4	54.4	58.3
135°	46.6	42.8	46.6	46.6	50.5
137.5°	38.9	38.9	42.8	38.9	42.8
140°	35.0	31.1	35.0	35.0	38.9
142.5°	31.1	27.2	31.1	27.2	31.1
145°	27.2	23.3	23.3	23.3	27.2
147.5°	23.3	19.4	19.4	19.4	23.3
150°	19.4	15.5	15.5	15.5	19.4
152.5°	15.5	11.7	7.8	11.7	15.5
155°	11.7	11.7	3.9	7.8	11.7
157.5°	7.8	7.8	0.0	3.9	7.8
160°	3.9	3.9	0.0	3.9	3.9
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)