

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: P384266

Luminaire Tested: **14ID-75-L830-CFD2**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P384266  
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-75-L830-CFD2  
Description: 1X4 IN DEPTH TROFFER WITH 2INCH DROP CUBE LENS

Light Source: -  
Ballast/Driver: -

**Summary**

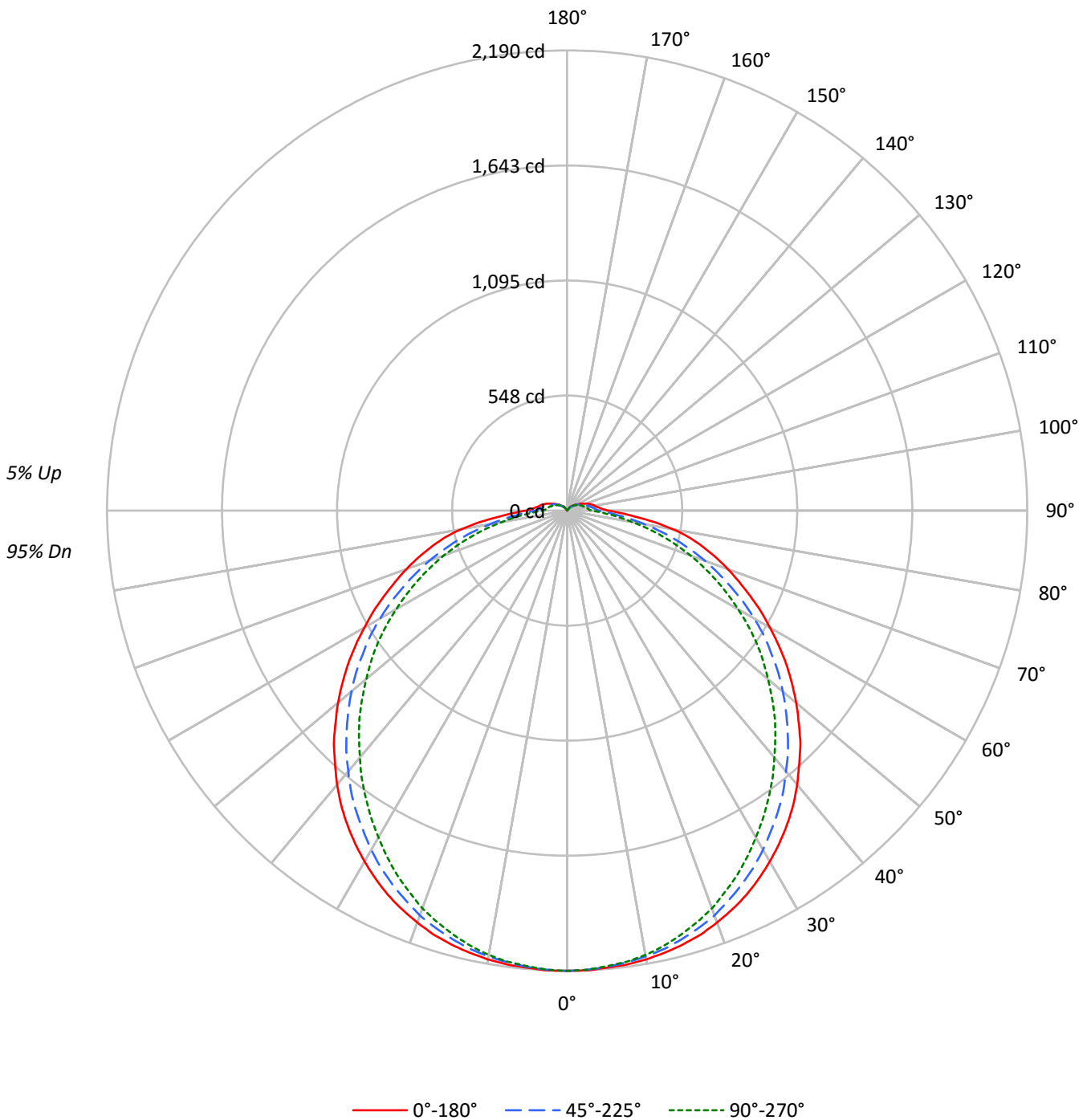
Lumens per Lamp: N/A  
Luminaire Lumens: 7104.2 lumens  
Efficiency: N/A  
Efficacy: 100.2 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 1.22 / 1.38  
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.17')  
CIE Type: Direct

Input Watts (W): 70.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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: P384266  
CATALOG NUMBER: 14ID-75-L830-CFD2

### Luminous Intensity Polar Plot





TEST NUMBER: P384266

CATALOG NUMBER: 14ID-75-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°	5894	5894	5894
5°	5876	5813	5793
10°	5883	5738	5700
15°	5887	5659	5574
20°	5886	5573	5439
25°	5878	5458	5274
30°	5852	5338	5091
35°	5824	5210	4915
40°	5780	5066	4728
45°	5737	4923	4561
50°	5676	4774	4357
55°	5635	4599	4171
60°	5596	4412	3922
65°	5615	4163	3666
70°	5745	3916	3366
75°	6032	3583	2987
80°	6425	3148	2513
85°	6747	2722	2058



TEST NUMBER: P384266

CATALOG NUMBER: 14ID-75-L830-CFD2

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	207.3	2.9
10°-20°	596.1	8.4
20°-30°	905.4	12.7
30°-40°	1093.6	15.4
40°-50°	1144.7	16.1
50°-60°	1062.1	15.0
60°-70°	860.3	12.1
70°-80°	580.6	8.2
80°-90°	280.5	3.9
90°-100°	141.1	2.0
100°-110°	102.6	1.4
110°-120°	68.6	1.0
120°-130°	39.7	0.6
130°-140°	20.0	0.3
140°-150°	1.5	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1708.8	24.1
0°-40°	2802.5	39.4
0°-60°	5009.3	70.5
0°-90°	6730.7	94.7
90°-120°	312.2	4.4
90°-150°	373.5	5.3
90°-180°	374.0	5.3
0°-180°	7104.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2190	2190	2190	2190	2190	
5°	2183	2180	2180	2176	2176	208
15°	2137	2126	2112	2097	2090	604
25°	2018	2000	1964	1929	1914	930
35°	1825	1800	1749	1696	1671	1142
45°	1570	1542	1484	1423	1398	1210
55°	1273	1244	1187	1129	1101	1138
65°	961	925	860	814	782	954
75°	670	602	534	495	466	706
85°	323	280	237	215	194	305
90°	194	176	151	136	115	111
95°	154	143	129	115	100	121
105°	115	108	97	86	79	122
115°	79	72	72	61	61	78
125°	50	43	47	39	43	44
135°	29	25	25	25	29	22
145°	0	0	0	0	0	2
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: P384266

CATALOG NUMBER: 14ID-75-L830-CFD2

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2190.4	2190.4	2190.4	2190.4	2190.4
2.5°	2190.4	2186.8	2186.8	2186.8	2186.8
5°	2183.2	2179.6	2179.6	2176.0	2176.0
7.5°	2179.6	2172.4	2168.8	2165.3	2165.3
10°	2168.8	2161.7	2154.5	2147.3	2147.3
12.5°	2154.5	2147.3	2136.6	2122.2	2122.2
15°	2136.6	2125.8	2111.5	2097.2	2090.0
17.5°	2115.1	2104.3	2082.8	2061.3	2054.1
20°	2086.4	2072.1	2050.5	2021.9	2014.7
22.5°	2054.1	2039.8	2007.5	1978.9	1964.5
25°	2018.3	2000.4	1964.5	1928.7	1914.3
27.5°	1975.3	1957.3	1917.9	1874.9	1857.0
30°	1928.7	1907.2	1864.1	1817.5	1796.0
32.5°	1878.5	1853.4	1806.8	1756.6	1735.1
35°	1824.7	1799.6	1749.4	1695.6	1670.6
37.5°	1767.3	1742.2	1688.5	1631.1	1606.0
40°	1702.8	1677.7	1620.4	1563.0	1534.3
42.5°	1634.7	1613.2	1555.8	1494.9	1466.2
45°	1570.2	1541.5	1484.1	1423.2	1398.1
47.5°	1494.9	1473.4	1412.4	1351.5	1322.8
50°	1423.2	1398.1	1340.7	1279.8	1247.5
52.5°	1347.9	1326.4	1265.5	1204.5	1175.8
55°	1272.6	1244.0	1186.6	1129.2	1100.6
57.5°	1193.8	1168.7	1111.3	1057.5	1021.7
60°	1114.9	1089.8	1028.9	978.7	939.2
62.5°	1039.6	1010.9	946.4	892.6	860.4
65°	960.7	924.9	860.4	813.8	781.5
67.5°	885.5	842.4	777.9	734.9	702.6
70°	813.8	763.6	699.1	656.0	623.8
72.5°	742.1	681.1	613.0	573.6	544.9
75°	670.4	602.3	534.1	494.7	466.0
77.5°	598.7	519.8	451.7	419.4	390.8
80°	512.6	437.4	372.8	344.1	315.5
82.5°	415.8	354.9	301.1	272.5	250.9
85°	322.6	279.6	236.6	215.1	193.6
87.5°	250.9	218.7	186.4	168.5	150.6
90°	193.6	175.7	150.6	136.2	114.7
92.5°	168.5	154.1	136.2	121.9	104.0
95°	154.1	143.4	129.1	114.7	100.4
97.5°	139.8	132.6	118.3	107.5	93.2
100°	132.6	121.9	111.1	100.4	89.6
102.5°	125.5	114.7	104.0	93.2	86.0
105°	114.7	107.5	96.8	86.0	78.9
107.5°	107.5	96.8	89.6	78.9	75.3
110°	96.8	89.6	82.5	75.3	71.7



TEST NUMBER: P384266

CATALOG NUMBER: 14ID-75-L830-CFD2

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	86.0	82.5	75.3	68.1	64.5
115°	78.9	71.7	71.7	60.9	60.9
117.5°	71.7	64.5	64.5	57.4	57.4
120°	60.9	57.4	57.4	50.2	50.2
122.5°	53.8	50.2	50.2	46.6	46.6
125°	50.2	43.0	46.6	39.4	43.0
127.5°	43.0	39.4	39.4	35.8	39.4
130°	35.8	32.3	32.3	32.3	35.8
132.5°	32.3	28.7	28.7	28.7	32.3
135°	28.7	25.1	25.1	25.1	28.7
137.5°	25.1	21.5	17.9	21.5	25.1
140°	21.5	17.9	14.3	17.9	21.5
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)