

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: P384374

Luminaire Tested: **24ID-75-L830-CFD2**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384374
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: 24ID-75-L830-CFD2
Description: 2X4 IN DEPTH TROFFER WITH 2INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

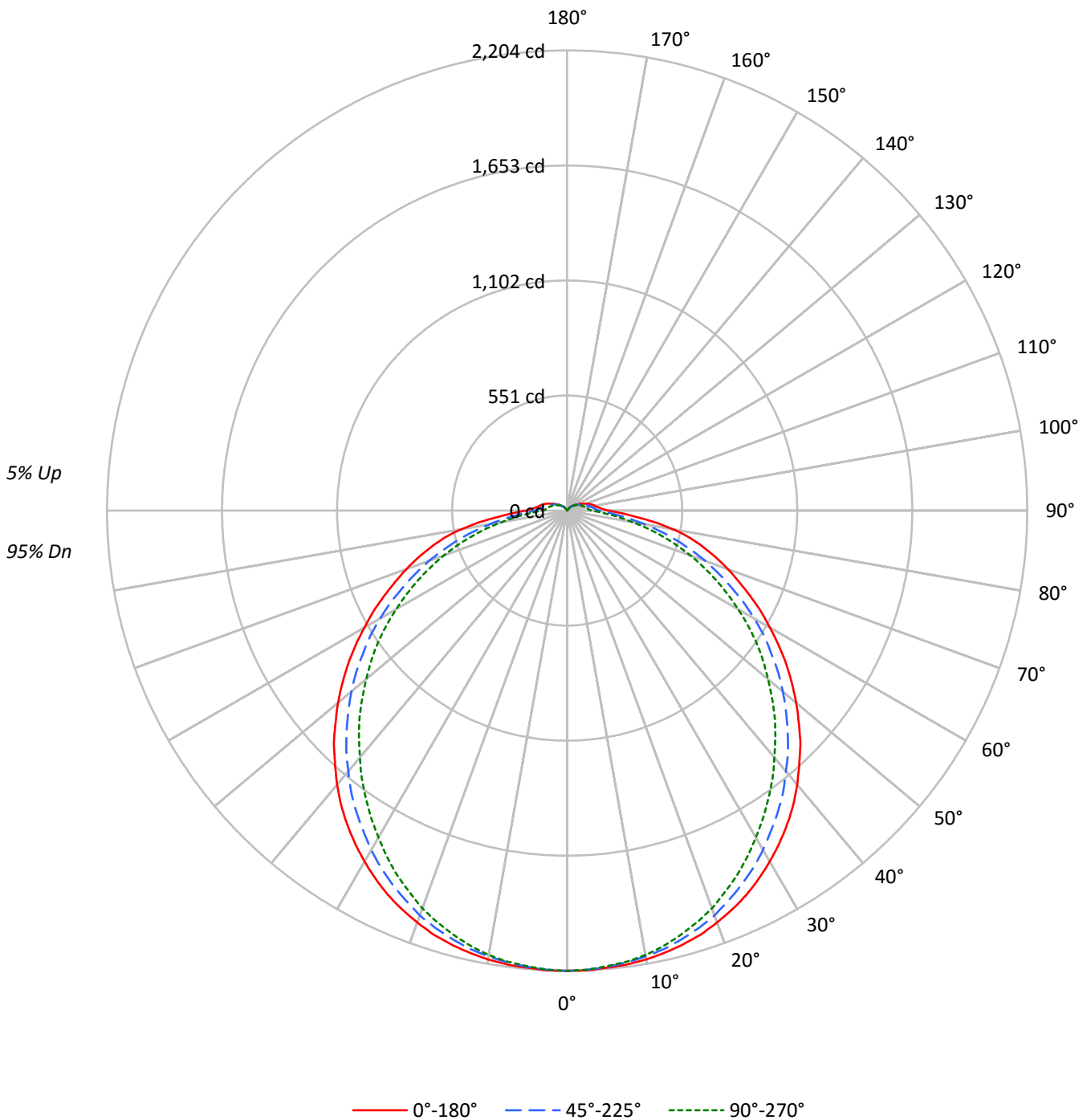
Lumens per Lamp: N/A
Luminaire Lumens: 7149.7 lumens
Efficiency: N/A
Efficacy: 101.0 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.22 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.17')
CIE Type: Direct

Input Watts (W): 70.8
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



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Luminous Intensity Polar Plot





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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°	2966	2966	2966
5°	2957	2940	2936
10°	2960	2917	2910
15°	2962	2892	2866
20°	2962	2863	2818
25°	2958	2819	2753
30°	2945	2773	2679
35°	2931	2723	2609
40°	2908	2666	2535
45°	2887	2611	2471
50°	2856	2555	2391
55°	2836	2487	2322
60°	2816	2416	2223
65°	2826	2317	2124
70°	2891	2227	2010
75°	3035	2102	1860
80°	3233	1936	1671
85°	3395	1828	1540



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	208.6	2.9
10°-20°	599.9	8.4
20°-30°	911.2	12.7
30°-40°	1100.6	15.4
40°-50°	1152.0	16.1
50°-60°	1068.9	15.0
60°-70°	865.8	12.1
70°-80°	584.3	8.2
80°-90°	282.3	3.9
90°-100°	142.0	2.0
100°-110°	103.2	1.4
110°-120°	69.0	1.0
120°-130°	40.0	0.6
130°-140°	20.2	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°	1719.8	24.1
0°-40°	2820.4	39.4
0°-60°	5041.4	70.5
0°-90°	6773.8	94.7
90°-120°	314.2	4.4
90°-150°	375.9	5.3
90°-180°	376.0	5.3
0°-180°	7149.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2204	2204	2204	2204	2204	
5°	2197	2194	2194	2190	2190	209
15°	2150	2139	2125	2111	2103	607
25°	2031	2013	1977	1941	1927	936
35°	1836	1811	1761	1706	1681	1149
45°	1580	1551	1494	1432	1407	1217
55°	1281	1252	1194	1136	1108	1145
65°	967	931	866	819	786	960
75°	675	606	538	498	469	711
85°	325	281	238	216	195	307
90°	195	177	152	137	116	111
95°	155	144	130	116	101	122
105°	116	108	97	87	79	123
115°	79	72	72	61	61	79
125°	50	43	47	40	43	44
135°	29	25	25	25	29	23
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



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2204.4	2204.4	2204.4	2204.4	2204.4
2.5°	2204.4	2200.8	2200.8	2200.8	2200.8
5°	2197.2	2193.6	2193.6	2190.0	2190.0
7.5°	2193.6	2186.3	2182.7	2179.1	2179.1
10°	2182.7	2175.5	2168.3	2161.1	2161.1
12.5°	2168.3	2161.1	2150.3	2135.8	2135.8
15°	2150.3	2139.4	2125.0	2110.6	2103.4
17.5°	2128.6	2117.8	2096.2	2074.5	2067.3
20°	2099.8	2085.3	2063.7	2034.8	2027.6
22.5°	2067.3	2052.9	2020.4	1991.5	1977.1
25°	2031.2	2013.2	1977.1	1941.0	1926.6
27.5°	1987.9	1969.9	1930.2	1886.9	1868.9
30°	1941.0	1919.4	1876.1	1829.2	1807.5
32.5°	1890.5	1865.3	1818.3	1767.8	1746.2
35°	1836.4	1811.1	1760.6	1706.5	1681.3
37.5°	1778.7	1753.4	1699.3	1641.6	1616.3
40°	1713.7	1688.5	1630.7	1573.0	1544.2
42.5°	1645.2	1623.5	1565.8	1504.5	1475.6
45°	1580.2	1551.4	1493.6	1432.3	1407.1
47.5°	1504.5	1482.8	1421.5	1360.2	1331.3
50°	1432.3	1407.1	1349.3	1288.0	1255.5
52.5°	1356.5	1334.9	1273.6	1212.2	1183.4
55°	1280.8	1251.9	1194.2	1136.5	1107.6
57.5°	1201.4	1176.2	1118.4	1064.3	1028.2
60°	1122.0	1096.8	1035.4	984.9	945.3
62.5°	1046.3	1017.4	952.5	898.4	865.9
65°	966.9	930.8	865.9	819.0	786.5
67.5°	891.1	847.8	782.9	739.6	707.1
70°	819.0	768.5	703.5	660.2	627.8
72.5°	746.8	685.5	616.9	577.3	548.4
75°	674.7	606.1	537.6	497.9	469.0
77.5°	602.5	523.1	454.6	422.1	393.3
80°	515.9	440.2	375.2	346.4	317.5
82.5°	418.5	357.2	303.1	274.2	252.5
85°	324.7	281.4	238.1	216.5	194.8
87.5°	252.5	220.1	187.6	169.6	151.5
90°	194.8	176.8	151.5	137.1	115.5
92.5°	169.6	155.1	137.1	122.7	104.6
95°	155.1	144.3	129.9	115.5	101.0
97.5°	140.7	133.5	119.1	108.2	93.8
100°	133.5	122.7	111.8	101.0	90.2
102.5°	126.3	115.5	104.6	93.8	86.6
105°	115.5	108.2	97.4	86.6	79.4
107.5°	108.2	97.4	90.2	79.4	75.8
110°	97.4	90.2	83.0	75.8	72.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	86.6	83.0	75.8	68.5	64.9
115°	79.4	72.2	72.2	61.3	61.3
117.5°	72.2	64.9	64.9	57.7	57.7
120°	61.3	57.7	57.7	50.5	50.5
122.5°	54.1	50.5	50.5	46.9	46.9
125°	50.5	43.3	46.9	39.7	43.3
127.5°	43.3	39.7	39.7	36.1	39.7
130°	36.1	32.5	32.5	32.5	36.1
132.5°	32.5	28.9	28.9	28.9	32.5
135°	28.9	25.3	25.3	25.3	28.9
137.5°	25.3	21.6	18.0	21.6	25.3
140°	21.6	18.0	14.4	18.0	21.6
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)