

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: P384194

Luminaire Tested: **24ID-60-L830-CFD1**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384194
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: 24ID-60-L830-CFD1
Description: 2X4 IN DEPTH TROFFER WITH 1INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

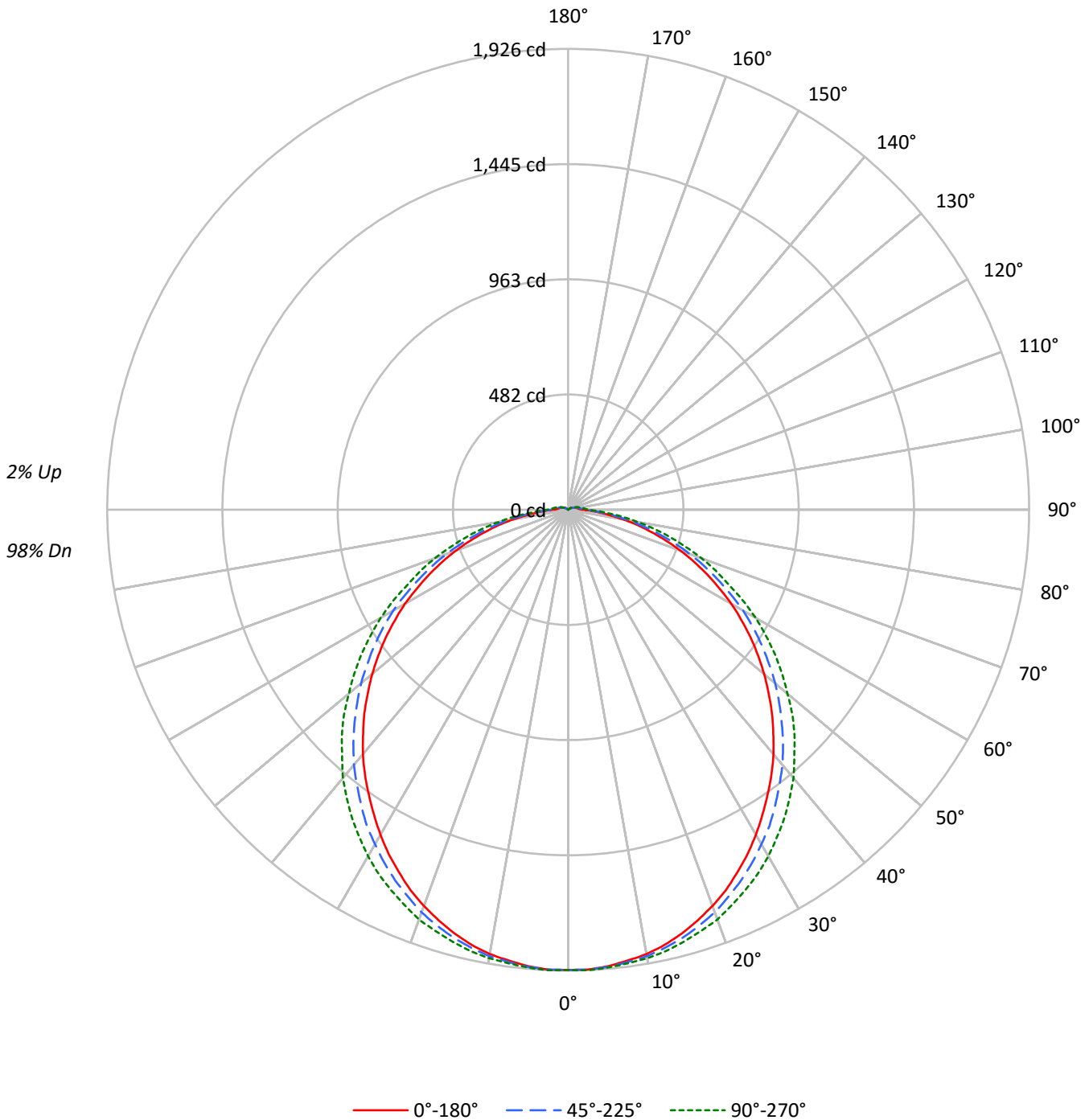
Lumens per Lamp: N/A
Luminaire Lumens: 5697.2 lumens
Efficiency: N/A
Efficacy: 104.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.08')
CIE Type: Direct

Input Watts (W): 54.5
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	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°	2588	2588	2588
5°	2582	2580	2585
10°	2567	2569	2582
15°	2541	2549	2574
20°	2504	2524	2571
25°	2459	2487	2553
30°	2408	2446	2537
35°	2352	2402	2512
40°	2304	2358	2485
45°	2245	2300	2443
50°	2183	2246	2385
55°	2119	2180	2334
60°	2048	2108	2269
65°	1954	1999	2161
70°	1849	1895	2090
75°	1728	1753	1975
80°	1602	1593	1847
85°	1549	1481	1752



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.2	3.2
10°-20°	522.2	9.2
20°-30°	788.5	13.8
30°-40°	944.7	16.6
40°-50°	976.7	17.1
50°-60°	884.5	15.5
60°-70°	684.4	12.0
70°-80°	420.4	7.4
80°-90°	167.1	2.9
90°-100°	60.9	1.1
100°-110°	37.5	0.7
110°-120°	19.2	0.3
120°-130°	8.2	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°	1492.9	26.2
0°-40°	2437.6	42.8
0°-60°	4298.8	75.5
0°-90°	5570.8	97.8
90°-120°	117.6	2.1
90°-150°	126.4	2.2
90°-180°	126.0	2.2
0°-180°	5697.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1924	1924	1924	1924	1924	
5°	1915	1915	1918	1918	1921	182
15°	1834	1837	1851	1863	1869	517
25°	1672	1684	1710	1739	1753	771
35°	1453	1470	1508	1548	1574	910
45°	1204	1219	1262	1314	1337	928
55°	930	950	988	1031	1054	831
65°	641	656	687	722	739	634
75°	358	376	393	419	439	382
85°	124	133	144	159	168	124
90°	58	66	72	81	87	34
95°	43	49	55	61	66	35
105°	32	32	35	38	40	34
115°	20	17	17	20	23	20
125°	12	9	6	9	12	11
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



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1923.6	1923.6	1923.6	1923.6	1923.6
2.5°	1923.6	1920.7	1923.6	1923.6	1926.5
5°	1915.0	1915.0	1917.9	1917.9	1920.7
7.5°	1900.5	1900.5	1906.3	1909.2	1912.1
10°	1886.1	1886.1	1894.8	1897.6	1903.4
12.5°	1863.0	1865.9	1874.5	1883.2	1889.0
15°	1834.1	1837.0	1851.4	1863.0	1868.8
17.5°	1799.4	1805.2	1822.5	1839.9	1845.7
20°	1761.9	1770.6	1790.8	1811.0	1822.5
22.5°	1721.5	1727.2	1750.3	1776.3	1787.9
25°	1672.4	1683.9	1709.9	1738.8	1753.2
27.5°	1623.2	1634.8	1663.7	1698.3	1715.7
30°	1568.4	1579.9	1614.6	1652.1	1672.4
32.5°	1510.6	1525.0	1565.5	1603.0	1623.2
35°	1452.8	1470.2	1507.7	1548.2	1574.1
37.5°	1395.1	1409.5	1449.9	1493.3	1519.3
40°	1334.4	1348.9	1392.2	1435.5	1464.4
42.5°	1268.0	1285.3	1328.6	1374.9	1398.0
45°	1204.4	1218.9	1262.2	1314.2	1337.3
47.5°	1135.1	1155.3	1195.8	1244.9	1270.9
50°	1068.7	1086.0	1129.3	1175.6	1195.8
52.5°	999.4	1016.7	1057.1	1103.3	1126.5
55°	930.0	950.3	987.8	1031.1	1054.2
57.5°	857.8	878.1	915.6	953.2	979.1
60°	788.5	808.7	843.4	880.9	904.1
62.5°	710.5	727.9	765.4	805.8	823.2
65°	641.2	655.7	687.4	722.1	739.4
67.5°	569.0	586.3	615.2	647.0	667.2
70°	496.8	517.0	540.1	569.0	592.1
72.5°	427.5	444.8	465.0	493.9	514.1
75°	358.2	375.5	392.8	418.8	439.0
77.5°	297.5	306.2	323.5	346.6	366.8
80°	231.1	242.6	257.1	280.2	294.6
82.5°	173.3	184.9	196.4	213.7	228.2
85°	124.2	132.9	144.4	158.9	167.5
87.5°	83.8	92.4	101.1	112.6	121.3
90°	57.8	66.4	72.2	80.9	86.7
92.5°	49.1	54.9	60.7	66.4	72.2
95°	43.3	49.1	54.9	60.7	66.4
97.5°	40.4	43.3	49.1	54.9	57.8
100°	37.5	40.4	43.3	49.1	52.0
102.5°	34.7	34.7	40.4	43.3	46.2
105°	31.8	31.8	34.7	37.5	40.4
107.5°	28.9	28.9	31.8	31.8	37.5
110°	26.0	23.1	26.0	26.0	31.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	23.1	20.2	23.1	23.1	26.0
115°	20.2	17.3	17.3	20.2	23.1
117.5°	17.3	14.4	14.4	14.4	20.2
120°	17.3	14.4	11.6	11.6	17.3
122.5°	14.4	11.6	8.7	11.6	14.4
125°	11.6	8.7	5.8	8.7	11.6
127.5°	8.7	8.7	2.9	5.8	8.7
130°	8.7	5.8	2.9	5.8	5.8
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)