

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: P384186

Luminaire Tested: **24ID-50-L830-CFD1**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384186
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-50-L830-CFD1
Description: 2X4 IN DEPTH TROFFER WITH 1INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

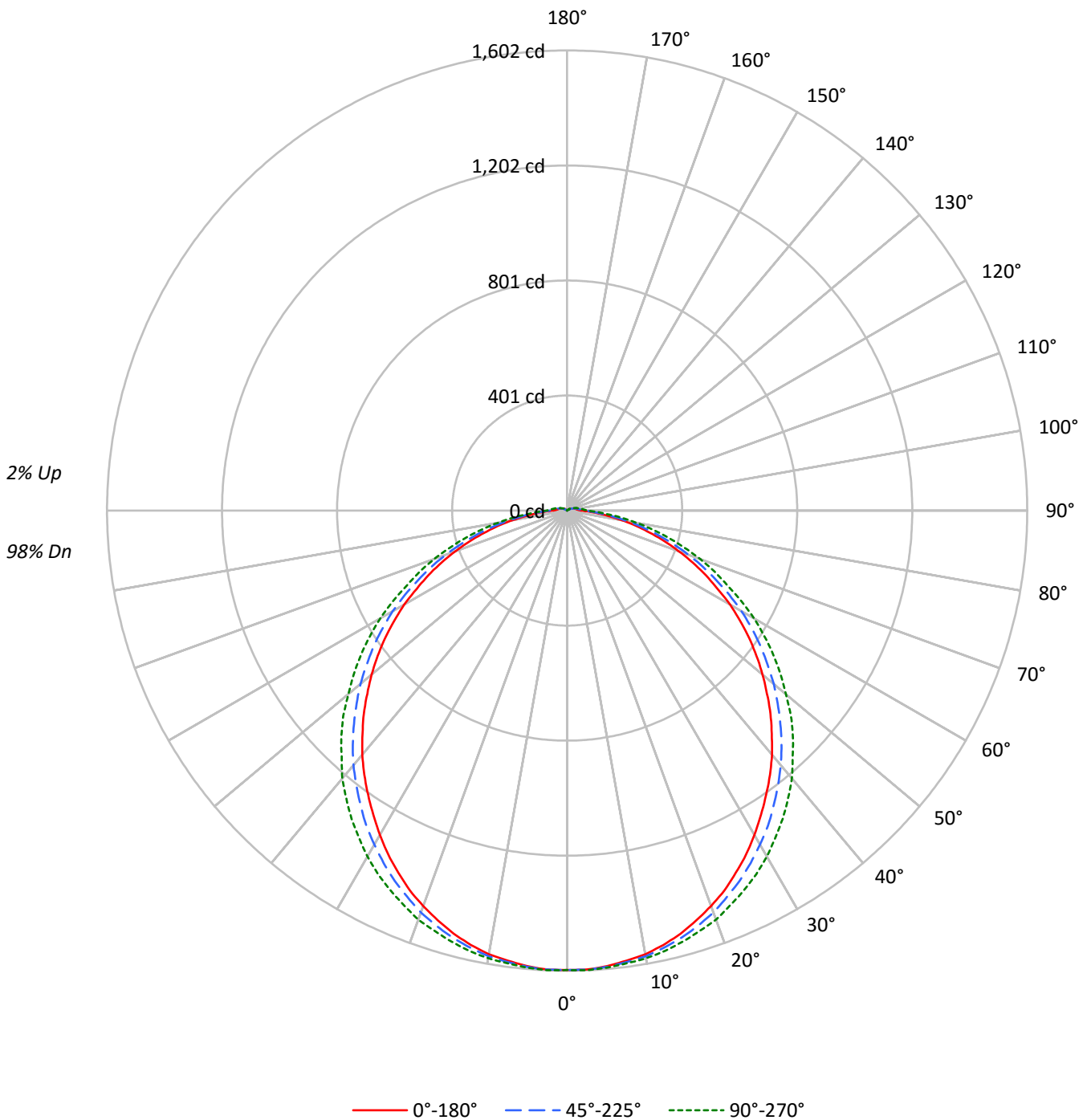
Lumens per Lamp: N/A
Luminaire Lumens: 4736.9 lumens
Efficiency: N/A
Efficacy: 107.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.08')
CIE Type: Direct

Input Watts (W): 44.1
Input Voltage (V): NR
Input Current (Ain): 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°	2152	2152	2152
5°	2147	2145	2149
10°	2135	2136	2146
15°	2112	2119	2140
20°	2082	2098	2137
25°	2044	2068	2123
30°	2002	2034	2110
35°	1956	1997	2089
40°	1915	1960	2066
45°	1867	1913	2031
50°	1815	1867	1983
55°	1762	1812	1941
60°	1703	1753	1887
65°	1625	1662	1797
70°	1537	1576	1738
75°	1436	1458	1642
80°	1331	1324	1536
85°	1288	1232	1457



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.5	3.2
10°-20°	434.2	9.2
20°-30°	655.6	13.8
30°-40°	785.5	16.6
40°-50°	812.1	17.1
50°-60°	735.4	15.5
60°-70°	569.1	12.0
70°-80°	349.6	7.4
80°-90°	138.9	2.9
90°-100°	50.6	1.1
100°-110°	31.1	0.7
110°-120°	16.0	0.3
120°-130°	6.8	0.1
130°-140°	0.5	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°	1241.3	26.2
0°-40°	2026.8	42.8
0°-60°	3574.3	75.5
0°-90°	4631.9	97.8
90°-120°	97.8	2.1
90°-150°	105.0	2.2
90°-180°	105.0	2.2
0°-180°	4736.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1599	1599	1599	1599	1599	
5°	1592	1592	1595	1595	1597	151
15°	1525	1527	1539	1549	1554	430
25°	1390	1400	1422	1446	1458	641
35°	1208	1222	1254	1287	1309	756
45°	1001	1014	1050	1093	1112	772
55°	773	790	821	857	877	691
65°	533	545	572	600	615	527
75°	298	312	327	348	365	317
85°	103	110	120	132	139	103
90°	48	55	60	67	72	28
95°	36	41	46	50	55	29
105°	26	26	29	31	34	28
115°	17	14	14	17	19	17
125°	10	7	5	7	10	9
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°	1599.4	1599.4	1599.4	1599.4	1599.4
2.5°	1599.4	1597.0	1599.4	1599.4	1601.8
5°	1592.2	1592.2	1594.6	1594.6	1597.0
7.5°	1580.2	1580.2	1585.0	1587.4	1589.8
10°	1568.2	1568.2	1575.4	1577.8	1582.6
12.5°	1549.0	1551.4	1558.6	1565.8	1570.6
15°	1525.0	1527.4	1539.4	1549.0	1553.8
17.5°	1496.2	1501.0	1515.4	1529.8	1534.6
20°	1464.9	1472.1	1489.0	1505.8	1515.4
22.5°	1431.3	1436.1	1455.3	1477.0	1486.6
25°	1390.5	1400.1	1421.7	1445.7	1457.7
27.5°	1349.7	1359.3	1383.3	1412.1	1426.5
30°	1304.0	1313.6	1342.5	1373.7	1390.5
32.5°	1256.0	1268.0	1301.6	1332.9	1349.7
35°	1208.0	1222.4	1253.6	1287.2	1308.8
37.5°	1159.9	1172.0	1205.6	1241.6	1263.2
40°	1109.5	1121.5	1157.5	1193.6	1217.6
42.5°	1054.3	1068.7	1104.7	1143.1	1162.3
45°	1001.4	1013.5	1049.5	1092.7	1111.9
47.5°	943.8	960.6	994.2	1035.1	1056.7
50°	888.6	903.0	939.0	977.4	994.2
52.5°	830.9	845.3	879.0	917.4	936.6
55°	773.3	790.1	821.3	857.4	876.6
57.5°	713.3	730.1	761.3	792.5	814.1
60°	655.6	672.4	701.3	732.5	751.7
62.5°	590.8	605.2	636.4	670.0	684.4
65°	533.1	545.2	571.6	600.4	614.8
67.5°	473.1	487.5	511.5	537.9	554.8
70°	413.1	429.9	449.1	473.1	492.3
72.5°	355.4	369.8	386.6	410.7	427.5
75°	297.8	312.2	326.6	348.2	365.0
77.5°	247.4	254.6	269.0	288.2	305.0
80°	192.1	201.7	213.7	232.9	245.0
82.5°	144.1	153.7	163.3	177.7	189.7
85°	103.3	110.5	120.1	132.1	139.3
87.5°	69.6	76.8	84.1	93.7	100.9
90°	48.0	55.2	60.0	67.2	72.0
92.5°	40.8	45.6	50.4	55.2	60.0
95°	36.0	40.8	45.6	50.4	55.2
97.5°	33.6	36.0	40.8	45.6	48.0
100°	31.2	33.6	36.0	40.8	43.2
102.5°	28.8	28.8	33.6	36.0	38.4
105°	26.4	26.4	28.8	31.2	33.6
107.5°	24.0	24.0	26.4	26.4	31.2
110°	21.6	19.2	21.6	21.6	26.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	19.2	16.8	19.2	19.2	21.6
115°	16.8	14.4	14.4	16.8	19.2
117.5°	14.4	12.0	12.0	12.0	16.8
120°	14.4	12.0	9.6	9.6	14.4
122.5°	12.0	9.6	7.2	9.6	12.0
125°	9.6	7.2	4.8	7.2	9.6
127.5°	7.2	7.2	2.4	4.8	7.2
130°	7.2	4.8	2.4	4.8	4.8
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)