

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: P384351

Luminaire Tested: **24ID-45-L835-CFD2**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384351
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-45-L835-CFD2
Description: 2X4 IN DEPTH TROFFER WITH 2INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

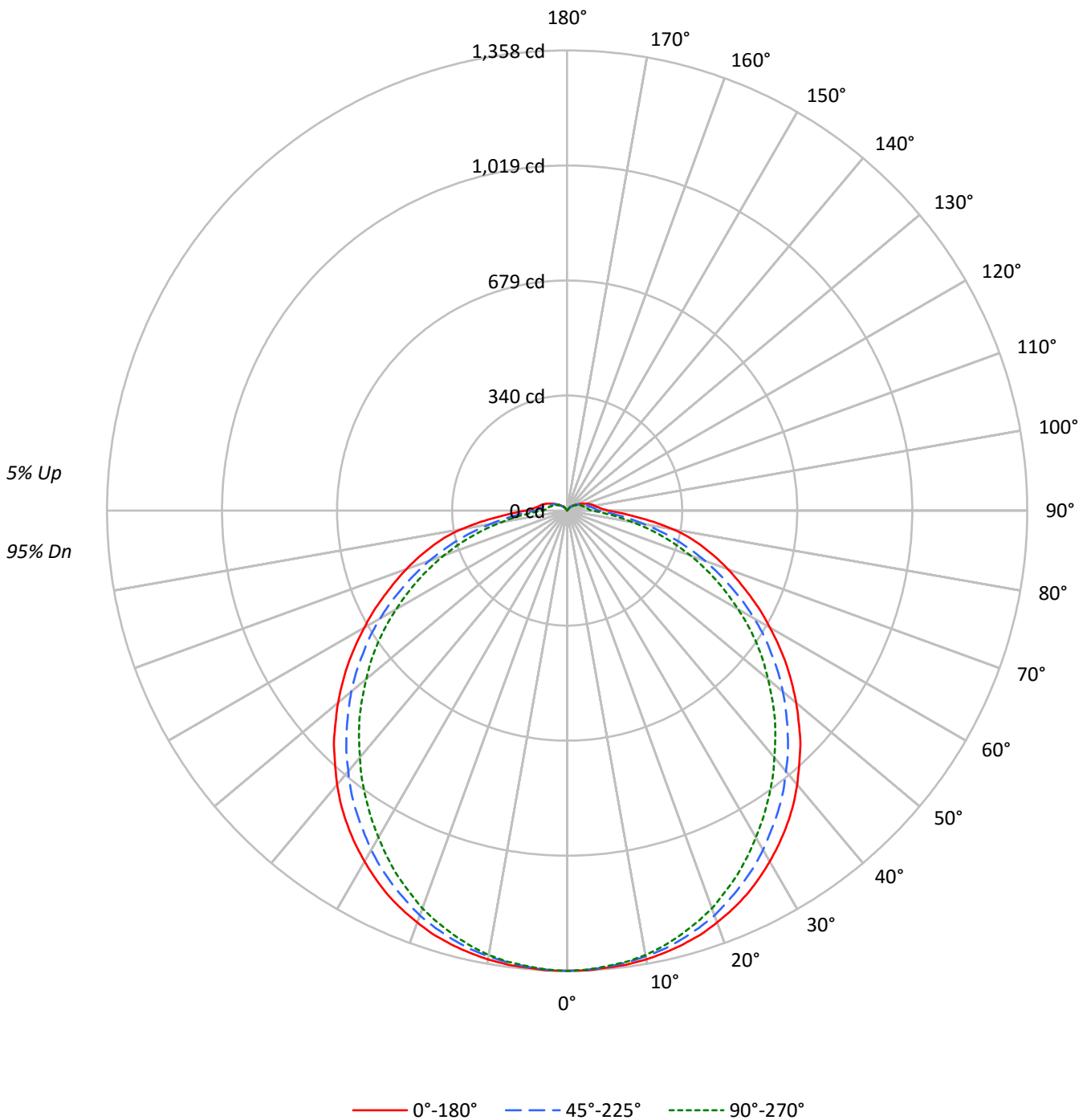
Lumens per Lamp: N/A
Luminaire Lumens: 4405.4 lumens
Efficiency: N/A
Efficacy: 110.1 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.22 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.17')
CIE Type: Direct

Input Watts (W): 40
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	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°	1828	1828	1828
5°	1822	1812	1809
10°	1824	1797	1793
15°	1825	1782	1766
20°	1825	1764	1736
25°	1823	1737	1696
30°	1814	1709	1651
35°	1806	1678	1608
40°	1792	1643	1562
45°	1779	1609	1523
50°	1760	1574	1473
55°	1747	1533	1431
60°	1735	1489	1370
65°	1741	1428	1309
70°	1781	1372	1238
75°	1870	1295	1146
80°	1992	1193	1029
85°	2093	1127	949



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.5	2.9
10°-20°	369.7	8.4
20°-30°	561.5	12.7
30°-40°	678.2	15.4
40°-50°	709.8	16.1
50°-60°	658.6	15.0
60°-70°	533.5	12.1
70°-80°	360.0	8.2
80°-90°	173.9	3.9
90°-100°	87.5	2.0
100°-110°	63.6	1.4
110°-120°	42.5	1.0
120°-130°	24.6	0.6
130°-140°	12.4	0.3
140°-150°	1.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1059.7	24.1
0°-40°	1737.8	39.4
0°-60°	3106.3	70.5
0°-90°	4173.8	94.7
90°-120°	193.6	4.4
90°-150°	231.7	5.3
90°-180°	232.0	5.3
0°-180°	4405.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1358	1358	1358	1358	1358	
5°	1354	1352	1352	1349	1349	129
15°	1325	1318	1309	1300	1296	374
25°	1252	1240	1218	1196	1187	577
35°	1132	1116	1085	1052	1036	708
45°	974	956	920	882	867	750
55°	789	771	736	700	682	705
65°	596	574	534	505	485	591
75°	416	374	331	307	289	438
85°	200	173	147	133	120	189
90°	120	109	93	84	71	69
95°	96	89	80	71	62	75
105°	71	67	60	53	49	76
115°	49	44	44	38	38	49
125°	31	27	29	24	27	27
135°	18	16	16	16	18	14
145°	0	0	0	0	0	1
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°	1358.3	1358.3	1358.3	1358.3	1358.3
2.5°	1358.3	1356.0	1356.0	1356.0	1356.0
5°	1353.8	1351.6	1351.6	1349.4	1349.4
7.5°	1351.6	1347.2	1344.9	1342.7	1342.7
10°	1344.9	1340.5	1336.0	1331.6	1331.6
12.5°	1336.0	1331.6	1324.9	1316.0	1316.0
15°	1324.9	1318.3	1309.4	1300.5	1296.0
17.5°	1311.6	1304.9	1291.6	1278.2	1273.8
20°	1293.8	1284.9	1271.6	1253.8	1249.3
22.5°	1273.8	1264.9	1244.9	1227.1	1218.2
25°	1251.6	1240.4	1218.2	1196.0	1187.1
27.5°	1224.9	1213.8	1189.3	1162.6	1151.5
30°	1196.0	1182.6	1156.0	1127.1	1113.7
32.5°	1164.9	1149.3	1120.4	1089.3	1075.9
35°	1131.5	1116.0	1084.8	1051.5	1035.9
37.5°	1096.0	1080.4	1047.0	1011.5	995.9
40°	1055.9	1040.4	1004.8	969.2	951.5
42.5°	1013.7	1000.4	964.8	927.0	909.2
45°	973.7	955.9	920.3	882.5	867.0
47.5°	927.0	913.7	875.9	838.1	820.3
50°	882.5	867.0	831.4	793.6	773.6
52.5°	835.9	822.5	784.7	746.9	729.2
55°	789.2	771.4	735.8	700.3	682.5
57.5°	740.3	724.7	689.1	655.8	633.6
60°	691.4	675.8	638.0	606.9	582.4
62.5°	644.7	626.9	586.9	553.5	533.5
65°	595.8	573.5	533.5	504.6	484.6
67.5°	549.1	522.4	482.4	455.7	435.7
70°	504.6	473.5	433.5	406.8	386.8
72.5°	460.2	422.4	380.1	355.7	337.9
75°	415.7	373.5	331.2	306.8	289.0
77.5°	371.2	322.3	280.1	260.1	242.3
80°	317.9	271.2	231.2	213.4	195.6
82.5°	257.9	220.1	186.7	168.9	155.6
85°	200.1	173.4	146.7	133.4	120.0
87.5°	155.6	135.6	115.6	104.5	93.4
90°	120.0	108.9	93.4	84.5	71.1
92.5°	104.5	95.6	84.5	75.6	64.5
95°	95.6	88.9	80.0	71.1	62.2
97.5°	86.7	82.3	73.4	66.7	57.8
100°	82.3	75.6	68.9	62.2	55.6
102.5°	77.8	71.1	64.5	57.8	53.4
105°	71.1	66.7	60.0	53.4	48.9
107.5°	66.7	60.0	55.6	48.9	46.7
110°	60.0	55.6	51.1	46.7	44.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	53.4	51.1	46.7	42.2	40.0
115°	48.9	44.5	44.5	37.8	37.8
117.5°	44.5	40.0	40.0	35.6	35.6
120°	37.8	35.6	35.6	31.1	31.1
122.5°	33.3	31.1	31.1	28.9	28.9
125°	31.1	26.7	28.9	24.5	26.7
127.5°	26.7	24.5	24.5	22.2	24.5
130°	22.2	20.0	20.0	20.0	22.2
132.5°	20.0	17.8	17.8	17.8	20.0
135°	17.8	15.6	15.6	15.6	17.8
137.5°	15.6	13.3	11.1	13.3	15.6
140°	13.3	11.1	8.9	11.1	13.3
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)