

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: P384350

Luminaire Tested: **24ID-45-L830-CFD2**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384350
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-L830-CFD2
Description: 2X4 IN DEPTH TROFFER WITH 2INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

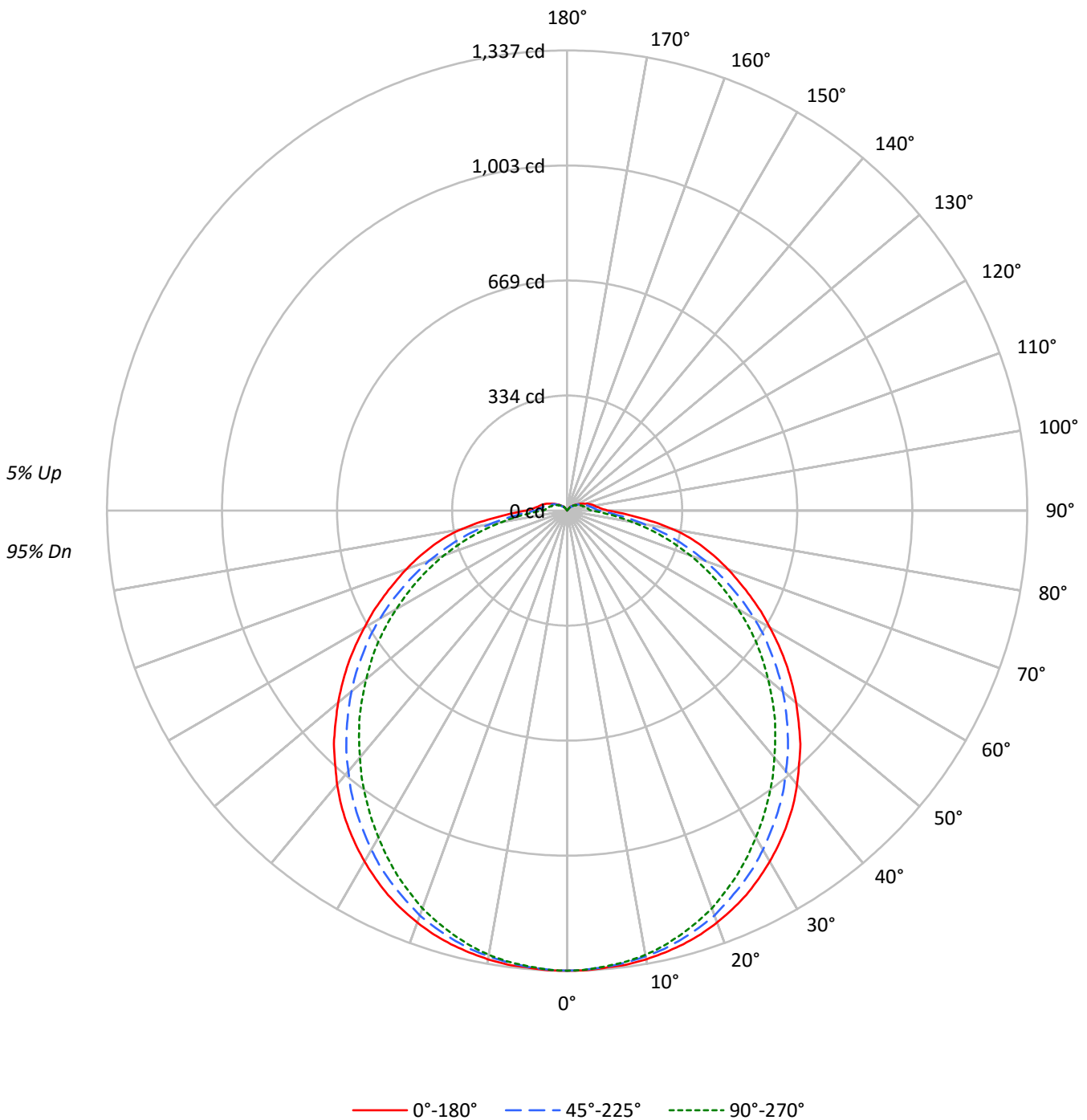
Lumens per Lamp: N/A
Luminaire Lumens: 4336.5 lumens
Efficiency: N/A
Efficacy: 108.4 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.22 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.17')
CIE Type: Direct

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°	1799	1799	1799
5°	1793	1783	1781
10°	1796	1769	1765
15°	1797	1754	1738
20°	1796	1736	1709
25°	1794	1710	1670
30°	1786	1682	1625
35°	1778	1652	1583
40°	1764	1617	1538
45°	1751	1584	1499
50°	1732	1550	1450
55°	1720	1509	1408
60°	1708	1466	1348
65°	1714	1406	1288
70°	1753	1351	1219
75°	1841	1275	1128
80°	1961	1175	1013
85°	2059	1109	935



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.5	2.9
10°-20°	363.9	8.4
20°-30°	552.7	12.7
30°-40°	667.6	15.4
40°-50°	698.7	16.1
50°-60°	648.3	15.0
60°-70°	525.2	12.1
70°-80°	354.4	8.2
80°-90°	171.2	3.9
90°-100°	86.1	2.0
100°-110°	62.6	1.4
110°-120°	41.9	1.0
120°-130°	24.3	0.6
130°-140°	12.2	0.3
140°-150°	0.9	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1043.1	24.1
0°-40°	1710.7	39.4
0°-60°	3057.7	70.5
0°-90°	4108.5	94.7
90°-120°	190.6	4.4
90°-150°	228.0	5.3
90°-180°	228.0	5.3
0°-180°	4336.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1337	1337	1337	1337	1337	
5°	1333	1330	1330	1328	1328	127
15°	1304	1298	1289	1280	1276	368
25°	1232	1221	1199	1177	1168	568
35°	1114	1098	1068	1035	1020	697
45°	958	941	906	869	853	738
55°	777	759	724	689	672	694
65°	586	565	525	497	477	582
75°	409	368	326	302	284	431
85°	197	171	144	131	118	186
90°	118	107	92	83	70	67
95°	94	88	79	70	61	74
105°	70	66	59	52	48	75
115°	48	44	44	37	37	48
125°	31	26	28	24	26	27
135°	18	15	15	15	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°	1337.0	1337.0	1337.0	1337.0	1337.0
2.5°	1337.0	1334.8	1334.8	1334.8	1334.8
5°	1332.6	1330.5	1330.5	1328.3	1328.3
7.5°	1330.5	1326.1	1323.9	1321.7	1321.7
10°	1323.9	1319.5	1315.1	1310.8	1310.8
12.5°	1315.1	1310.8	1304.2	1295.4	1295.4
15°	1304.2	1297.6	1288.9	1280.1	1275.8
17.5°	1291.1	1284.5	1271.4	1258.2	1253.9
20°	1273.6	1264.8	1251.7	1234.2	1229.8
22.5°	1253.9	1245.1	1225.4	1207.9	1199.2
25°	1232.0	1221.0	1199.2	1177.3	1168.5
27.5°	1205.7	1194.8	1170.7	1144.5	1133.5
30°	1177.3	1164.2	1137.9	1109.4	1096.3
32.5°	1146.6	1131.3	1102.9	1072.2	1059.1
35°	1113.8	1098.5	1067.9	1035.0	1019.7
37.5°	1078.8	1063.5	1030.7	995.7	980.3
40°	1039.4	1024.1	989.1	954.1	936.6
42.5°	997.8	984.7	949.7	912.5	895.0
45°	958.5	941.0	905.9	868.7	853.4
47.5°	912.5	899.4	862.2	825.0	807.5
50°	868.7	853.4	818.4	781.2	761.5
52.5°	822.8	809.7	772.5	735.3	717.7
55°	776.8	759.3	724.3	689.3	671.8
57.5°	728.7	713.4	678.4	645.5	623.7
60°	680.5	665.2	628.0	597.4	573.3
62.5°	634.6	617.1	577.7	544.9	525.2
65°	586.5	564.6	525.2	496.7	477.0
67.5°	540.5	514.2	474.9	448.6	428.9
70°	496.7	466.1	426.7	400.5	380.8
72.5°	453.0	415.8	374.2	350.1	332.6
75°	409.2	367.6	326.1	302.0	284.5
77.5°	365.4	317.3	275.7	256.0	238.5
80°	312.9	267.0	227.6	210.1	192.6
82.5°	253.8	216.6	183.8	166.3	153.2
85°	196.9	170.7	144.4	131.3	118.2
87.5°	153.2	133.5	113.8	102.8	91.9
90°	118.2	107.2	91.9	83.2	70.0
92.5°	102.8	94.1	83.2	74.4	63.5
95°	94.1	87.5	78.8	70.0	61.3
97.5°	85.3	81.0	72.2	65.6	56.9
100°	81.0	74.4	67.8	61.3	54.7
102.5°	76.6	70.0	63.5	56.9	52.5
105°	70.0	65.6	59.1	52.5	48.1
107.5°	65.6	59.1	54.7	48.1	46.0
110°	59.1	54.7	50.3	46.0	43.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	52.5	50.3	46.0	41.6	39.4
115°	48.1	43.8	43.8	37.2	37.2
117.5°	43.8	39.4	39.4	35.0	35.0
120°	37.2	35.0	35.0	30.6	30.6
122.5°	32.8	30.6	30.6	28.4	28.4
125°	30.6	26.3	28.4	24.1	26.3
127.5°	26.3	24.1	24.1	21.9	24.1
130°	21.9	19.7	19.7	19.7	21.9
132.5°	19.7	17.5	17.5	17.5	19.7
135°	17.5	15.3	15.3	15.3	17.5
137.5°	15.3	13.1	10.9	13.1	15.3
140°	13.1	10.9	8.8	10.9	13.1
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)