

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: P384243

Luminaire Tested: **14ID-45-L835-CFD2**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384243
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: 14ID-45-L835-CFD2
Description: 1X4 IN DEPTH TROFFER WITH 2INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

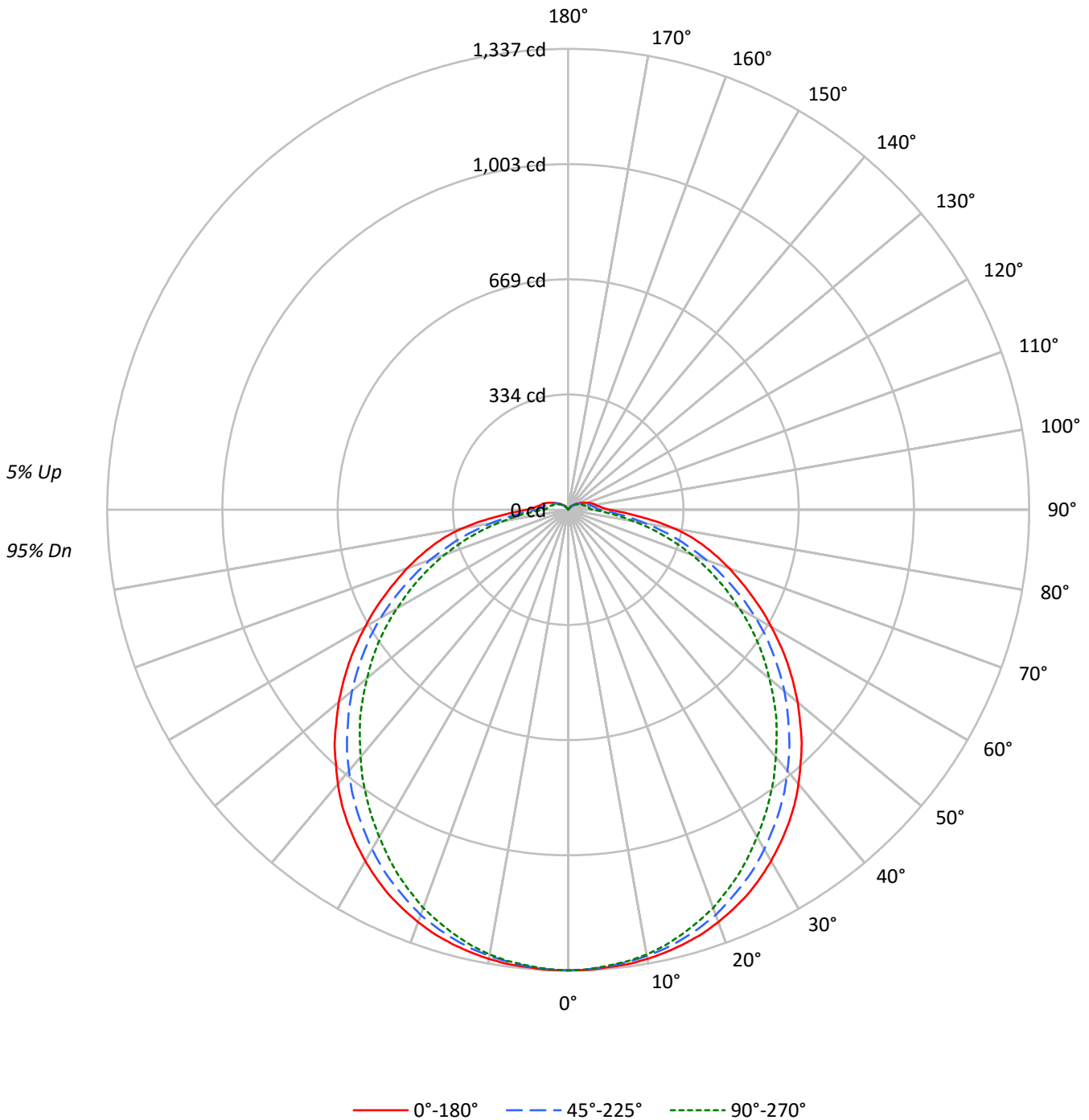
Lumens per Lamp: N/A
Luminaire Lumens: 4334.9 lumens
Efficiency: N/A
Efficacy: 113.8 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.22 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.17')
CIE Type: Direct

Input Watts (W): 38.1
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	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°	3597	3597	3597
5°	3586	3547	3535
10°	3590	3501	3478
15°	3592	3453	3401
20°	3591	3401	3319
25°	3587	3330	3218
30°	3571	3257	3106
35°	3554	3179	2999
40°	3527	3091	2885
45°	3500	3004	2783
50°	3463	2913	2659
55°	3439	2807	2545
60°	3415	2692	2393
65°	3426	2540	2237
70°	3506	2389	2054
75°	3681	2186	1823
80°	3921	1921	1534
85°	4118	1661	1255



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.5	2.9
10°-20°	363.7	8.4
20°-30°	552.5	12.7
30°-40°	667.3	15.4
40°-50°	698.5	16.1
50°-60°	648.1	15.0
60°-70°	525.0	12.1
70°-80°	354.3	8.2
80°-90°	171.1	3.9
90°-100°	86.1	2.0
100°-110°	62.6	1.4
110°-120°	41.8	1.0
120°-130°	24.2	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°	1042.7	24.1
0°-40°	1710.1	39.4
0°-60°	3056.7	70.5
0°-90°	4107.0	94.7
90°-120°	190.5	4.4
90°-150°	227.9	5.3
90°-180°	228.0	5.3
0°-180°	4334.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1337	1337	1337	1337	1337	
5°	1332	1330	1330	1328	1328	127
15°	1304	1297	1288	1280	1275	368
25°	1232	1221	1199	1177	1168	567
35°	1113	1098	1068	1035	1019	697
45°	958	941	906	868	853	738
55°	777	759	724	689	672	694
65°	586	564	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°	1336.6	1336.6	1336.6	1336.6	1336.6
2.5°	1336.6	1334.4	1334.4	1334.4	1334.4
5°	1332.2	1330.0	1330.0	1327.8	1327.8
7.5°	1330.0	1325.6	1323.4	1321.2	1321.2
10°	1323.4	1319.1	1314.7	1310.3	1310.3
12.5°	1314.7	1310.3	1303.7	1295.0	1295.0
15°	1303.7	1297.2	1288.4	1279.7	1275.3
17.5°	1290.6	1284.1	1270.9	1257.8	1253.4
20°	1273.1	1264.4	1251.2	1233.7	1229.4
22.5°	1253.4	1244.7	1225.0	1207.5	1198.7
25°	1231.6	1220.6	1198.7	1176.9	1168.1
27.5°	1205.3	1194.4	1170.3	1144.1	1133.1
30°	1176.9	1163.7	1137.5	1109.1	1095.9
32.5°	1146.2	1130.9	1102.5	1071.9	1058.7
35°	1113.4	1098.1	1067.5	1034.7	1019.4
37.5°	1078.4	1063.1	1030.3	995.3	980.0
40°	1039.1	1023.7	988.7	953.7	936.2
42.5°	997.5	984.4	949.4	912.2	894.7
45°	958.1	940.6	905.6	868.4	853.1
47.5°	912.2	899.1	861.9	824.7	807.2
50°	868.4	853.1	818.1	780.9	761.2
52.5°	822.5	809.4	772.2	735.0	717.5
55°	776.6	759.1	724.1	689.1	671.6
57.5°	728.4	713.1	678.1	645.3	623.4
60°	680.3	665.0	627.8	597.2	573.1
62.5°	634.4	616.9	577.5	544.7	525.0
65°	586.2	564.4	525.0	496.6	476.9
67.5°	540.3	514.1	474.7	448.4	428.7
70°	496.6	465.9	426.6	400.3	380.6
72.5°	452.8	415.6	374.1	350.0	332.5
75°	409.1	367.5	325.9	301.9	284.4
77.5°	365.3	317.2	275.6	255.9	238.4
80°	312.8	266.9	227.5	210.0	192.5
82.5°	253.7	216.6	183.7	166.2	153.1
85°	196.9	170.6	144.4	131.2	118.1
87.5°	153.1	133.4	113.7	102.8	91.9
90°	118.1	107.2	91.9	83.1	70.0
92.5°	102.8	94.1	83.1	74.4	63.4
95°	94.1	87.5	78.7	70.0	61.2
97.5°	85.3	80.9	72.2	65.6	56.9
100°	80.9	74.4	67.8	61.2	54.7
102.5°	76.6	70.0	63.4	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	45.9
110°	59.1	54.7	50.3	45.9	43.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	52.5	50.3	45.9	41.6	39.4
115°	48.1	43.7	43.7	37.2	37.2
117.5°	43.7	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	26.2	28.4	24.1	26.2
127.5°	26.2	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	8.7	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)