

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: P384071

Luminaire Tested: **14ID-40-L835-CFD1**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384071
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: 14ID-40-L835-CFD1
Description: 1X4 IN DEPTH TROFFER WITH 1INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

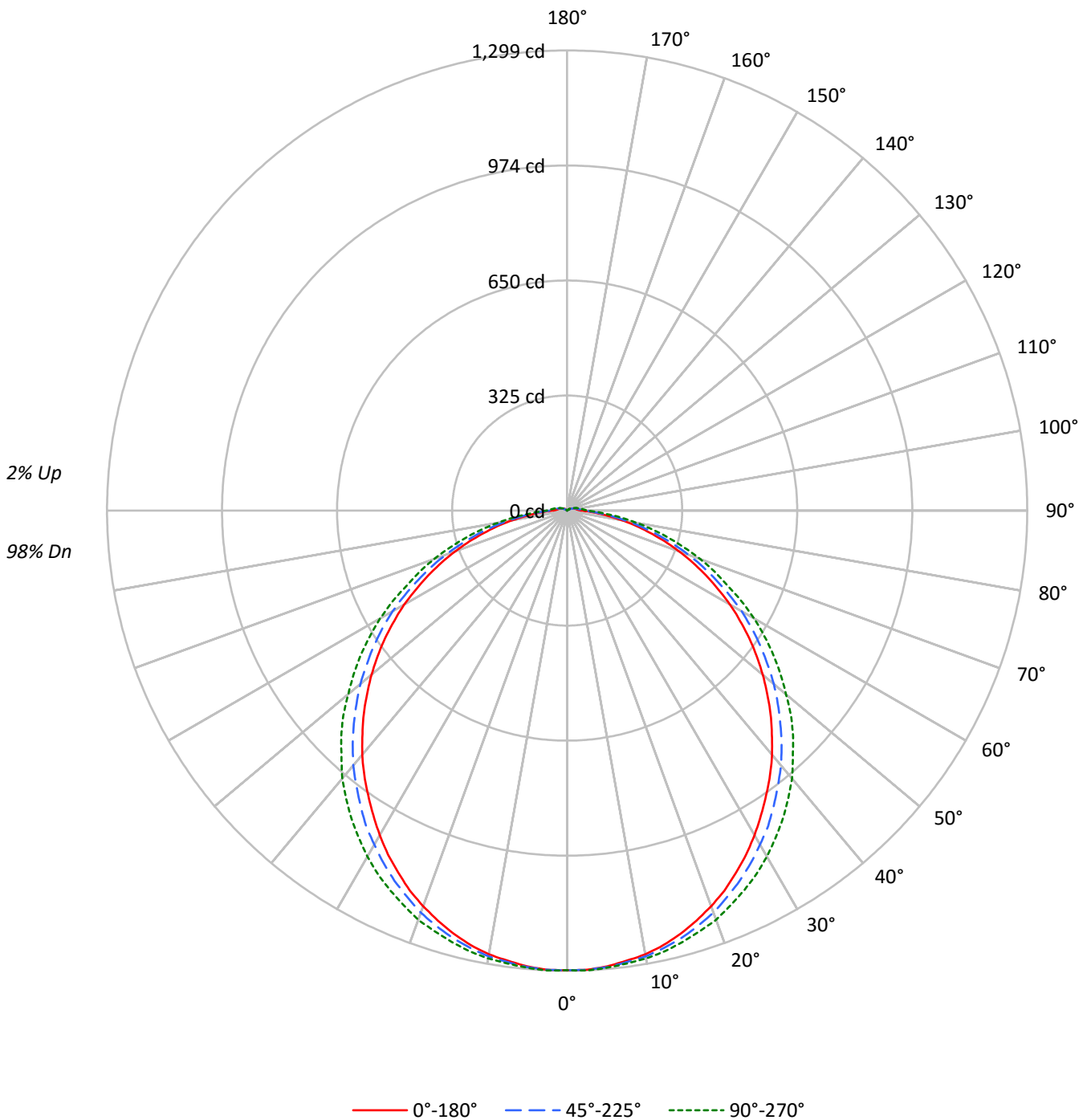
Lumens per Lamp: N/A
Luminaire Lumens: 3842.5 lumens
Efficiency: N/A
Efficacy: 115.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.08')
CIE Type: Direct

Input Watts (W): 33.4
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°	3491	3491	3491
5°	3483	3472	3474
10°	3463	3447	3457
15°	3427	3411	3435
20°	3377	3368	3416
25°	3317	3310	3380
30°	3248	3246	3344
35°	3173	3177	3296
40°	3107	3107	3243
45°	3028	3018	3168
50°	2944	2932	3071
55°	2858	2828	2981
60°	2762	2715	2868
65°	2636	2549	2694
70°	2494	2384	2557
75°	2331	2161	2348
80°	2159	1896	2091
85°	2090	1633	1787



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.9	3.2
10°-20°	352.2	9.2
20°-30°	531.8	13.8
30°-40°	637.2	16.6
40°-50°	658.8	17.1
50°-60°	596.6	15.5
60°-70°	461.6	12.0
70°-80°	283.6	7.4
80°-90°	112.7	2.9
90°-100°	41.1	1.1
100°-110°	25.3	0.7
110°-120°	13.0	0.3
120°-130°	5.5	0.1
130°-140°	0.4	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°	1006.9	26.2
0°-40°	1644.1	42.8
0°-60°	2899.4	75.5
0°-90°	3757.2	97.8
90°-120°	79.3	2.1
90°-150°	85.2	2.2
90°-180°	85.0	2.2
0°-180°	3842.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1297	1297	1297	1297	1297	
5°	1292	1292	1294	1294	1296	123
15°	1237	1239	1249	1256	1260	349
25°	1128	1136	1153	1173	1182	520
35°	980	992	1017	1044	1062	613
45°	812	822	851	886	902	626
55°	627	641	666	696	711	560
65°	432	442	464	487	499	428
75°	242	253	265	282	296	257
85°	84	90	97	107	113	83
90°	39	45	49	54	58	23
95°	29	33	37	41	45	23
105°	21	21	23	25	27	23
115°	14	12	12	14	16	14
125°	8	6	4	6	8	7
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°	1297.4	1297.4	1297.4	1297.4	1297.4
2.5°	1297.4	1295.5	1297.4	1297.4	1299.4
5°	1291.6	1291.6	1293.5	1293.5	1295.5
7.5°	1281.8	1281.8	1285.7	1287.7	1289.6
10°	1272.1	1272.1	1277.9	1279.9	1283.8
12.5°	1256.5	1258.4	1264.3	1270.1	1274.0
15°	1237.0	1239.0	1248.7	1256.5	1260.4
17.5°	1213.6	1217.5	1229.2	1240.9	1244.8
20°	1188.3	1194.2	1207.8	1221.4	1229.2
22.5°	1161.0	1164.9	1180.5	1198.1	1205.8
25°	1127.9	1135.7	1153.2	1172.7	1182.5
27.5°	1094.8	1102.6	1122.1	1145.5	1157.1
30°	1057.8	1065.6	1089.0	1114.3	1127.9
32.5°	1018.8	1028.6	1055.8	1081.2	1094.8
35°	979.9	991.6	1016.9	1044.2	1061.7
37.5°	940.9	950.7	977.9	1007.1	1024.7
40°	900.0	909.7	939.0	968.2	987.7
42.5°	855.2	866.9	896.1	927.3	942.9
45°	812.3	822.1	851.3	886.4	901.9
47.5°	765.6	779.2	806.5	839.6	857.1
50°	720.8	732.5	761.7	792.9	806.5
52.5°	674.0	685.7	713.0	744.2	759.7
55°	627.3	640.9	666.2	695.5	711.0
57.5°	578.6	592.2	617.5	642.9	660.4
60°	531.8	545.5	568.8	594.2	609.7
62.5°	479.2	490.9	516.2	543.5	555.2
65°	432.5	442.2	463.6	487.0	498.7
67.5°	383.8	395.5	414.9	436.4	450.0
70°	335.1	348.7	364.3	383.8	399.4
72.5°	288.3	300.0	313.6	333.1	346.8
75°	241.6	253.2	264.9	282.5	296.1
77.5°	200.6	206.5	218.2	233.8	247.4
80°	155.8	163.6	173.4	189.0	198.7
82.5°	116.9	124.7	132.5	144.2	153.9
85°	83.8	89.6	97.4	107.1	113.0
87.5°	56.5	62.3	68.2	76.0	81.8
90°	39.0	44.8	48.7	54.5	58.4
92.5°	33.1	37.0	40.9	44.8	48.7
95°	29.2	33.1	37.0	40.9	44.8
97.5°	27.3	29.2	33.1	37.0	39.0
100°	25.3	27.3	29.2	33.1	35.1
102.5°	23.4	23.4	27.3	29.2	31.2
105°	21.4	21.4	23.4	25.3	27.3
107.5°	19.5	19.5	21.4	21.4	25.3
110°	17.5	15.6	17.5	17.5	21.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	15.6	13.6	15.6	15.6	17.5
115°	13.6	11.7	11.7	13.6	15.6
117.5°	11.7	9.7	9.7	9.7	13.6
120°	11.7	9.7	7.8	7.8	11.7
122.5°	9.7	7.8	5.8	7.8	9.7
125°	7.8	5.8	3.9	5.8	7.8
127.5°	5.8	5.8	1.9	3.9	5.8
130°	5.8	3.9	1.9	3.9	3.9
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)