

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: P384070

Luminaire Tested: **14ID-40-L830-CFD1**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384070
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-L830-CFD1
Description: 1X4 IN DEPTH TROFFER WITH 1INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

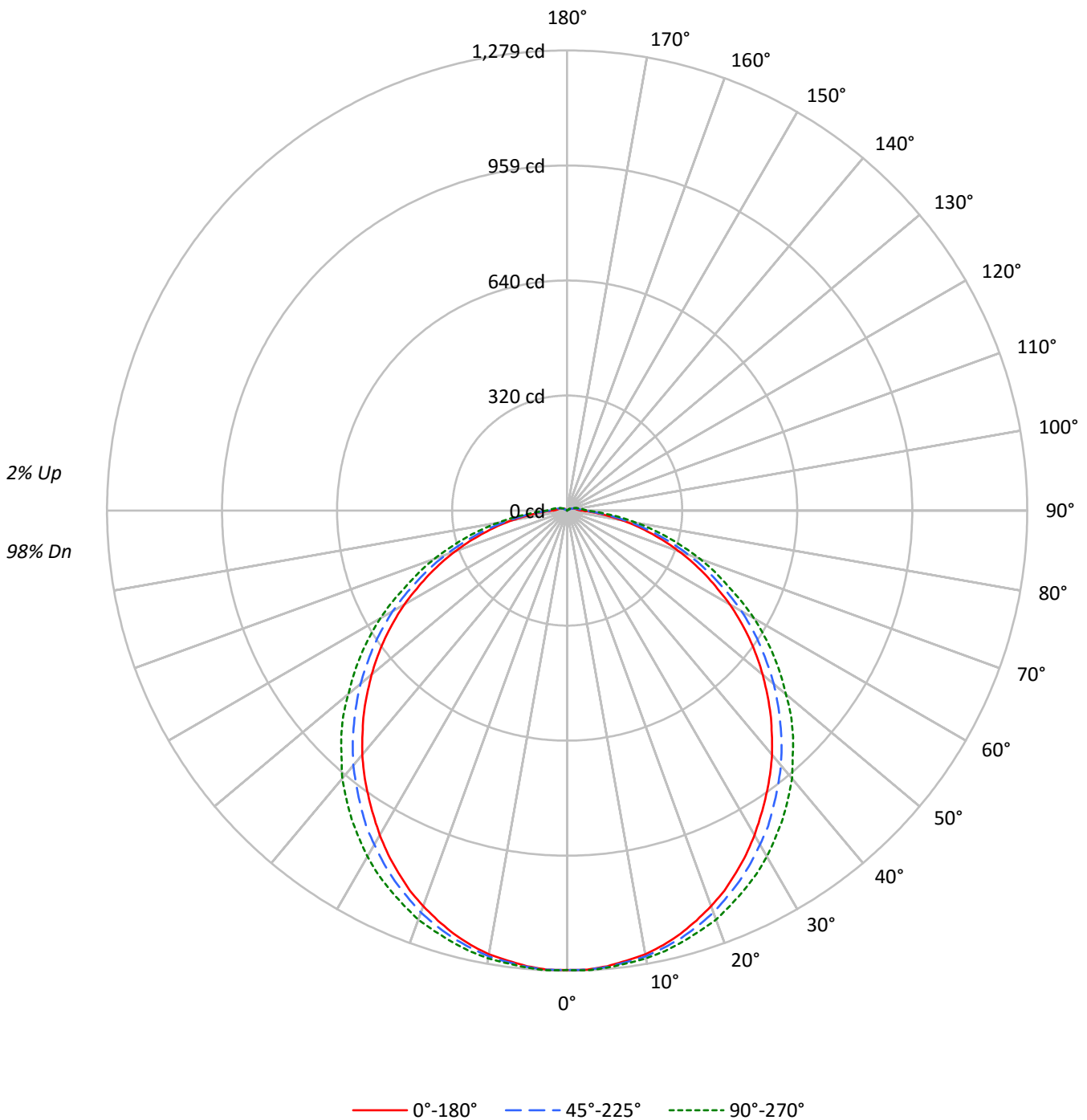
Lumens per Lamp: N/A
Luminaire Lumens: 3782.5 lumens
Efficiency: N/A
Efficacy: 113.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.08')
CIE Type: Direct

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°	3437	3437	3437
5°	3428	3417	3420
10°	3409	3393	3403
15°	3374	3358	3381
20°	3325	3316	3363
25°	3265	3259	3327
30°	3197	3195	3292
35°	3123	3127	3244
40°	3059	3058	3192
45°	2981	2970	3119
50°	2898	2886	3023
55°	2813	2784	2935
60°	2719	2673	2823
65°	2595	2510	2652
70°	2454	2347	2517
75°	2294	2127	2312
80°	2126	1866	2059
85°	2057	1608	1759



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.0	3.2
10°-20°	346.7	9.2
20°-30°	523.5	13.8
30°-40°	627.2	16.6
40°-50°	648.5	17.1
50°-60°	587.2	15.5
60°-70°	454.4	12.0
70°-80°	279.1	7.4
80°-90°	110.9	2.9
90°-100°	40.5	1.1
100°-110°	24.9	0.7
110°-120°	12.8	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°	991.2	26.2
0°-40°	1618.4	42.8
0°-60°	2854.1	75.5
0°-90°	3698.6	97.8
90°-120°	78.1	2.1
90°-150°	83.9	2.2
90°-180°	84.0	2.2
0°-180°	3782.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1277	1277	1277	1277	1277	
5°	1271	1271	1273	1273	1275	121
15°	1218	1220	1229	1237	1241	343
25°	1110	1118	1135	1154	1164	512
35°	965	976	1001	1028	1045	604
45°	800	809	838	872	888	616
55°	618	631	656	685	700	552
65°	426	435	456	479	491	421
75°	238	249	261	278	292	253
85°	82	88	96	106	111	82
90°	38	44	48	54	58	23
95°	29	33	36	40	44	23
105°	21	21	23	25	27	22
115°	13	12	12	13	15	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°	1277.1	1277.1	1277.1	1277.1	1277.1
2.5°	1277.1	1275.2	1277.1	1277.1	1279.1
5°	1271.4	1271.4	1273.3	1273.3	1275.2
7.5°	1261.8	1261.8	1265.6	1267.6	1269.5
10°	1252.2	1252.2	1258.0	1259.9	1263.7
12.5°	1236.9	1238.8	1244.5	1250.3	1254.1
15°	1217.7	1219.6	1229.2	1236.9	1240.7
17.5°	1194.7	1198.5	1210.0	1221.5	1225.4
20°	1169.8	1175.5	1188.9	1202.4	1210.0
22.5°	1142.9	1146.7	1162.1	1179.3	1187.0
25°	1110.3	1118.0	1135.2	1154.4	1164.0
27.5°	1077.7	1085.4	1104.6	1127.6	1139.1
30°	1041.3	1048.9	1072.0	1096.9	1110.3
32.5°	1002.9	1012.5	1039.4	1064.3	1077.7
35°	964.6	976.1	1001.0	1027.9	1045.1
37.5°	926.2	935.8	962.7	991.4	1008.7
40°	885.9	895.5	924.3	953.1	972.2
42.5°	841.8	853.3	882.1	912.8	928.1
45°	799.7	809.2	838.0	872.5	887.9
47.5°	753.6	767.1	793.9	826.5	843.8
50°	709.5	721.0	749.8	780.5	793.9
52.5°	663.5	675.0	701.9	732.5	747.9
55°	617.5	630.9	655.8	684.6	699.9
57.5°	569.5	583.0	607.9	632.8	650.1
60°	523.5	536.9	559.9	584.9	600.2
62.5°	471.7	483.2	508.2	535.0	546.5
65°	425.7	435.3	456.4	479.4	490.9
67.5°	377.8	389.3	408.5	429.6	443.0
70°	329.8	343.3	358.6	377.8	393.1
72.5°	283.8	295.3	308.7	327.9	341.3
75°	237.8	249.3	260.8	278.1	291.5
77.5°	197.5	203.3	214.8	230.1	243.5
80°	153.4	161.1	170.7	186.0	195.6
82.5°	115.1	122.7	130.4	141.9	151.5
85°	82.5	88.2	95.9	105.5	111.2
87.5°	55.6	61.4	67.1	74.8	80.5
90°	38.4	44.1	47.9	53.7	57.5
92.5°	32.6	36.4	40.3	44.1	47.9
95°	28.8	32.6	36.4	40.3	44.1
97.5°	26.8	28.8	32.6	36.4	38.4
100°	24.9	26.8	28.8	32.6	34.5
102.5°	23.0	23.0	26.8	28.8	30.7
105°	21.1	21.1	23.0	24.9	26.8
107.5°	19.2	19.2	21.1	21.1	24.9
110°	17.3	15.3	17.3	17.3	21.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	15.3	13.4	15.3	15.3	17.3
115°	13.4	11.5	11.5	13.4	15.3
117.5°	11.5	9.6	9.6	9.6	13.4
120°	11.5	9.6	7.7	7.7	11.5
122.5°	9.6	7.7	5.8	7.7	9.6
125°	7.7	5.8	3.8	5.8	7.7
127.5°	5.8	5.8	1.9	3.8	5.8
130°	5.8	3.8	1.9	3.8	3.8
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)