

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: P384128

Luminaire Tested: **22ID-40-L840-CFD1**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384128
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: 22ID-40-L840-CFD1
Description: 2X2 IN DEPTH TROFFER WITH 1INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

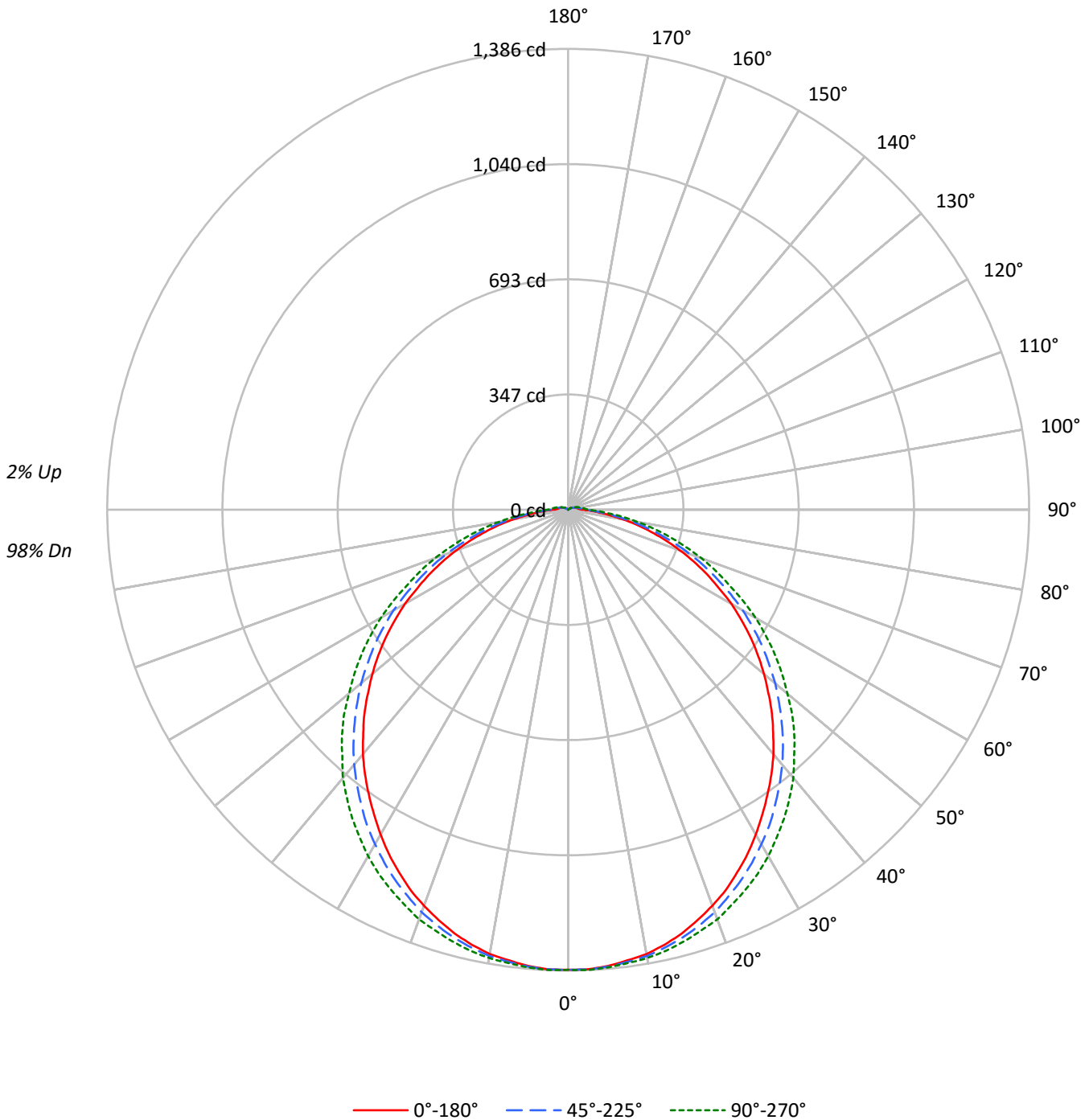
Lumens per Lamp: N/A
Luminaire Lumens: 4098.2 lumens
Efficiency: N/A
Efficacy: 125.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.08')
CIE Type: Direct

Input Watts (W): 32.7
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°	3724	3724	3724
5°	3707	3708	3719
10°	3680	3686	3714
15°	3635	3653	3704
20°	3575	3612	3698
25°	3504	3554	3673
30°	3423	3490	3650
35°	3336	3422	3614
40°	3258	3352	3575
45°	3165	3263	3515
50°	3066	3178	3431
55°	2962	3075	3358
60°	2847	2963	3264
65°	2696	2796	3109
70°	2523	2631	3007
75°	2318	2409	2842
80°	2083	2148	2656
85°	1868	1917	2521



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.1	3.2
10°-20°	375.7	9.2
20°-30°	567.2	13.8
30°-40°	679.6	16.6
40°-50°	702.6	17.1
50°-60°	636.3	15.5
60°-70°	492.3	12.0
70°-80°	302.4	7.4
80°-90°	120.2	2.9
90°-100°	43.8	1.1
100°-110°	26.9	0.7
110°-120°	13.8	0.3
120°-130°	5.9	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°	1073.9	26.2
0°-40°	1753.5	42.8
0°-60°	3092.3	75.5
0°-90°	4007.3	97.8
90°-120°	84.6	2.1
90°-150°	91.0	2.2
90°-180°	91.0	2.2
0°-180°	4098.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1384	1384	1384	1384	1384	
5°	1378	1378	1380	1380	1382	131
15°	1319	1321	1332	1340	1344	372
25°	1203	1211	1230	1251	1261	554
35°	1045	1058	1085	1114	1132	654
45°	866	877	908	945	962	668
55°	669	684	711	742	758	598
65°	461	472	494	519	532	456
75°	258	270	283	301	316	275
85°	89	96	104	114	120	89
90°	42	48	52	58	62	25
95°	31	35	40	44	48	25
105°	23	23	25	27	29	24
115°	14	12	12	14	17	15
125°	8	6	4	6	8	8
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°	1383.7	1383.7	1383.7	1383.7	1383.7
2.5°	1383.7	1381.7	1383.7	1383.7	1385.8
5°	1377.5	1377.5	1379.6	1379.6	1381.7
7.5°	1367.1	1367.1	1371.3	1373.4	1375.4
10°	1356.7	1356.7	1363.0	1365.0	1369.2
12.5°	1340.1	1342.2	1348.4	1354.7	1358.8
15°	1319.3	1321.4	1331.8	1340.1	1344.3
17.5°	1294.4	1298.6	1311.0	1323.5	1327.6
20°	1267.4	1273.6	1288.2	1302.7	1311.0
22.5°	1238.3	1242.5	1259.1	1277.8	1286.1
25°	1203.0	1211.3	1230.0	1250.8	1261.2
27.5°	1167.7	1176.0	1196.7	1221.7	1234.1
30°	1128.2	1136.5	1161.4	1188.4	1203.0
32.5°	1086.6	1097.0	1126.1	1153.1	1167.7
35°	1045.1	1057.5	1084.6	1113.6	1132.3
37.5°	1003.5	1013.9	1043.0	1074.2	1092.9
40°	959.9	970.3	1001.4	1032.6	1053.4
42.5°	912.1	924.6	955.7	989.0	1005.6
45°	866.4	876.8	908.0	945.3	962.0
47.5°	816.5	831.1	860.2	895.5	914.2
50°	768.7	781.2	812.4	845.6	860.2
52.5°	718.9	731.3	760.4	793.7	810.3
55°	669.0	683.6	710.6	741.7	758.4
57.5°	617.1	631.6	658.6	685.6	704.3
60°	567.2	581.8	606.7	633.7	650.3
62.5°	511.1	523.6	550.6	579.7	592.1
65°	461.2	471.6	494.5	519.4	531.9
67.5°	409.3	421.8	442.5	465.4	479.9
70°	357.4	371.9	388.5	409.3	425.9
72.5°	307.5	320.0	334.5	355.3	369.8
75°	257.6	270.1	282.6	301.3	315.8
77.5°	214.0	220.2	232.7	249.3	263.9
80°	166.2	174.5	184.9	201.5	211.9
82.5°	124.7	133.0	141.3	153.7	164.1
85°	89.3	95.6	103.9	114.3	120.5
87.5°	60.3	66.5	72.7	81.0	87.3
90°	41.6	47.8	51.9	58.2	62.3
92.5°	35.3	39.5	43.6	47.8	51.9
95°	31.2	35.3	39.5	43.6	47.8
97.5°	29.1	31.2	35.3	39.5	41.6
100°	27.0	29.1	31.2	35.3	37.4
102.5°	24.9	24.9	29.1	31.2	33.2
105°	22.9	22.9	24.9	27.0	29.1
107.5°	20.8	20.8	22.9	22.9	27.0
110°	18.7	16.6	18.7	18.7	22.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	16.6	14.5	16.6	16.6	18.7
115°	14.5	12.5	12.5	14.5	16.6
117.5°	12.5	10.4	10.4	10.4	14.5
120°	12.5	10.4	8.3	8.3	12.5
122.5°	10.4	8.3	6.2	8.3	10.4
125°	8.3	6.2	4.2	6.2	8.3
127.5°	6.2	6.2	2.1	4.2	6.2
130°	6.2	4.2	2.1	4.2	4.2
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)