

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: P384129

Luminaire Tested: **22ID-40-L850-CFD1**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384129
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-L850-CFD1
Description: 2X2 IN DEPTH TROFFER WITH 1INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

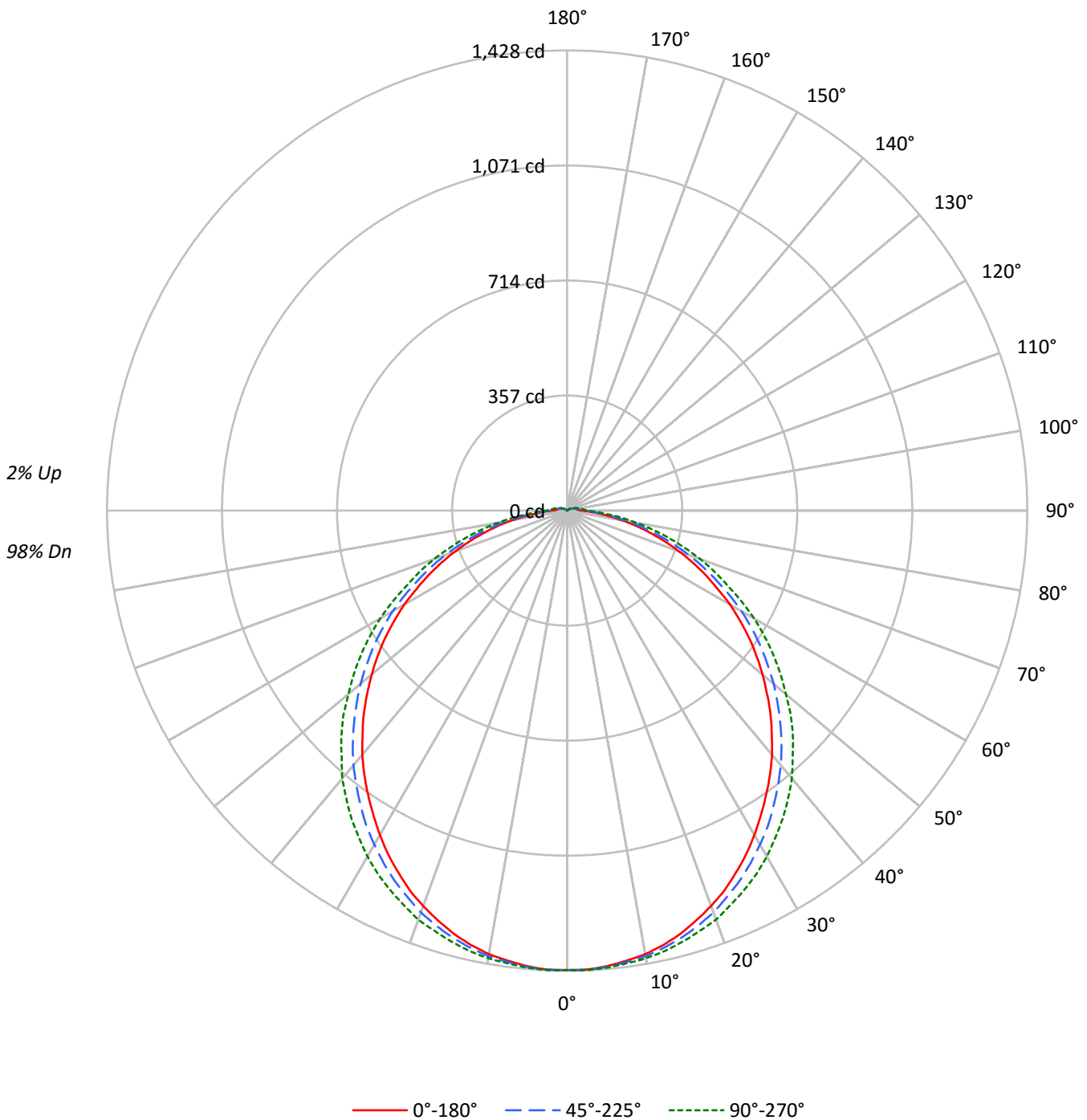
Lumens per Lamp: N/A
Luminaire Lumens: 4222.4 lumens
Efficiency: N/A
Efficacy: 129.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.08')
CIE Type: Direct

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°	3837	3837	3837
5°	3820	3820	3831
10°	3792	3798	3827
15°	3745	3763	3816
20°	3684	3721	3810
25°	3610	3662	3785
30°	3527	3596	3761
35°	3437	3525	3724
40°	3357	3454	3684
45°	3261	3362	3621
50°	3159	3274	3535
55°	3052	3168	3460
60°	2934	3053	3363
65°	2778	2880	3203
70°	2599	2711	3098
75°	2388	2481	2928
80°	2147	2213	2737
85°	1924	1974	2598



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.0	3.2
10°-20°	387.1	9.2
20°-30°	584.4	13.8
30°-40°	700.2	16.6
40°-50°	723.9	17.1
50°-60°	655.5	15.5
60°-70°	507.3	12.0
70°-80°	311.6	7.4
80°-90°	123.8	2.9
90°-100°	45.2	1.1
100°-110°	27.7	0.7
110°-120°	14.3	0.3
120°-130°	6.1	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°	1106.4	26.2
0°-40°	1806.6	42.8
0°-60°	3186.0	75.5
0°-90°	4128.7	97.8
90°-120°	87.2	2.1
90°-150°	93.7	2.2
90°-180°	94.0	2.2
0°-180°	4222.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1426	1426	1426	1426	1426	
5°	1419	1419	1421	1421	1424	135
15°	1359	1362	1372	1381	1385	383
25°	1239	1248	1267	1289	1299	571
35°	1077	1090	1117	1147	1167	674
45°	893	903	936	974	991	688
55°	689	704	732	764	781	616
65°	475	486	510	535	548	470
75°	265	278	291	310	325	283
85°	92	98	107	118	124	92
90°	43	49	54	60	64	25
95°	32	36	41	45	49	26
105°	24	24	26	28	30	25
115°	15	13	13	15	17	15
125°	9	6	4	6	9	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°	1425.7	1425.7	1425.7	1425.7	1425.7
2.5°	1425.7	1423.5	1425.7	1425.7	1427.8
5°	1419.3	1419.3	1421.4	1421.4	1423.5
7.5°	1408.6	1408.6	1412.8	1415.0	1417.1
10°	1397.8	1397.8	1404.3	1406.4	1410.7
12.5°	1380.7	1382.9	1389.3	1395.7	1400.0
15°	1359.3	1361.5	1372.2	1380.7	1385.0
17.5°	1333.6	1337.9	1350.8	1363.6	1367.9
20°	1305.8	1312.2	1327.2	1342.2	1350.8
22.5°	1275.8	1280.1	1297.2	1316.5	1325.1
25°	1239.4	1248.0	1267.3	1288.7	1299.4
27.5°	1203.0	1211.6	1233.0	1258.7	1271.5
30°	1162.4	1170.9	1196.6	1224.5	1239.4
32.5°	1119.6	1130.3	1160.2	1188.1	1203.0
35°	1076.7	1089.6	1117.4	1147.4	1166.7
37.5°	1033.9	1044.6	1074.6	1106.7	1126.0
40°	989.0	999.7	1031.8	1063.9	1085.3
42.5°	939.7	952.6	984.7	1019.0	1036.1
45°	892.7	903.4	935.5	974.0	991.1
47.5°	841.3	856.3	886.2	922.6	941.9
50°	792.0	804.9	837.0	871.2	886.2
52.5°	740.7	753.5	783.5	817.7	834.9
55°	689.3	704.3	732.1	764.2	781.3
57.5°	635.8	650.8	678.6	706.4	725.7
60°	584.4	599.4	625.1	652.9	670.0
62.5°	526.6	539.4	567.3	597.2	610.1
65°	475.2	485.9	509.5	535.2	548.0
67.5°	421.7	434.6	456.0	479.5	494.5
70°	368.2	383.2	400.3	421.7	438.8
72.5°	316.8	329.7	344.6	366.1	381.0
75°	265.4	278.3	291.1	310.4	325.4
77.5°	220.5	226.9	239.8	256.9	271.9
80°	171.3	179.8	190.5	207.6	218.3
82.5°	128.4	137.0	145.6	158.4	169.1
85°	92.0	98.5	107.0	117.7	124.2
87.5°	62.1	68.5	74.9	83.5	89.9
90°	42.8	49.2	53.5	59.9	64.2
92.5°	36.4	40.7	45.0	49.2	53.5
95°	32.1	36.4	40.7	45.0	49.2
97.5°	30.0	32.1	36.4	40.7	42.8
100°	27.8	30.0	32.1	36.4	38.5
102.5°	25.7	25.7	30.0	32.1	34.3
105°	23.5	23.5	25.7	27.8	30.0
107.5°	21.4	21.4	23.5	23.5	27.8
110°	19.3	17.1	19.3	19.3	23.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	17.1	15.0	17.1	17.1	19.3
115°	15.0	12.8	12.8	15.0	17.1
117.5°	12.8	10.7	10.7	10.7	15.0
120°	12.8	10.7	8.6	8.6	12.8
122.5°	10.7	8.6	6.4	8.6	10.7
125°	8.6	6.4	4.3	6.4	8.6
127.5°	6.4	6.4	2.1	4.3	6.4
130°	6.4	4.3	2.1	4.3	4.3
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)