

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: P384241

Luminaire Tested: **14ID-40-L850-CFD2**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384241
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-40-L850-CFD2
Description: 1X4 IN DEPTH TROFFER WITH 2INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

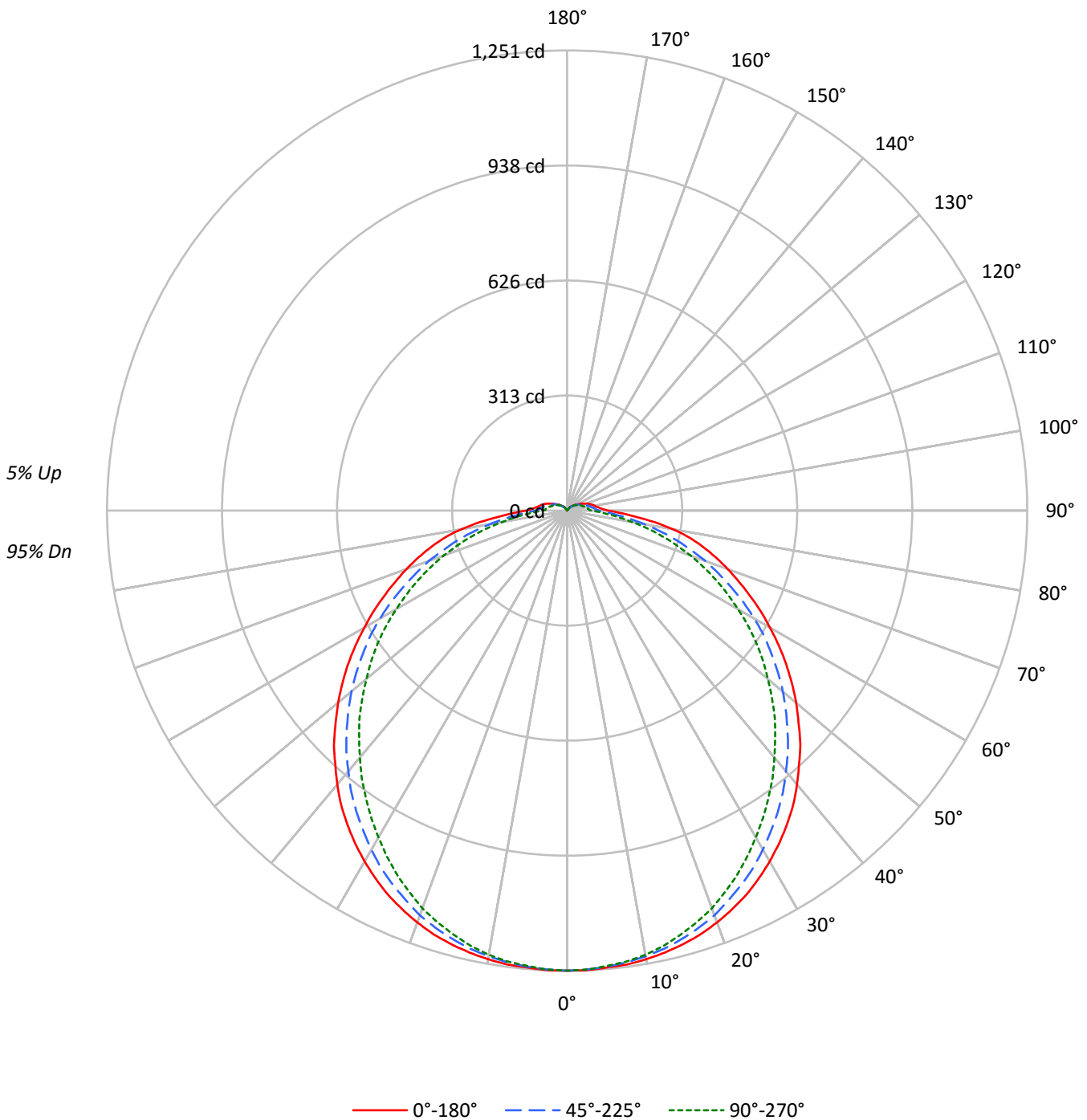
Lumens per Lamp: N/A
Luminaire Lumens: 4056.7 lumens
Efficiency: N/A
Efficacy: 121.5 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.22 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.17')
CIE Type: Direct

Input Watts (W): 33.4
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°	3366	3366	3366
5°	3355	3319	3308
10°	3360	3277	3255
15°	3362	3231	3183
20°	3361	3182	3106
25°	3357	3117	3012
30°	3342	3048	2907
35°	3326	2975	2806
40°	3300	2893	2700
45°	3276	2811	2604
50°	3241	2726	2488
55°	3218	2626	2381
60°	3196	2519	2240
65°	3207	2377	2094
70°	3281	2236	1922
75°	3444	2046	1706
80°	3669	1797	1435
85°	3852	1554	1174



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.4	2.9
10°-20°	340.4	8.4
20°-30°	517.0	12.7
30°-40°	624.5	15.4
40°-50°	653.6	16.1
50°-60°	606.5	15.0
60°-70°	491.3	12.1
70°-80°	331.5	8.2
80°-90°	160.2	3.9
90°-100°	80.6	2.0
100°-110°	58.6	1.4
110°-120°	39.1	1.0
120°-130°	22.7	0.6
130°-140°	11.4	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°	975.8	24.1
0°-40°	1600.3	39.4
0°-60°	2860.4	70.5
0°-90°	3843.4	94.7
90°-120°	178.3	4.4
90°-150°	213.3	5.3
90°-180°	213.0	5.3
0°-180°	4056.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1251	1251	1251	1251	1251	
5°	1247	1245	1245	1243	1243	119
15°	1220	1214	1206	1198	1193	345
25°	1152	1142	1122	1101	1093	531
35°	1042	1028	999	968	954	652
45°	897	880	848	813	798	691
55°	727	710	678	645	628	650
65°	549	528	491	465	446	544
75°	383	344	305	282	266	403
85°	184	160	135	123	110	174
90°	110	100	86	78	66	63
95°	88	82	74	66	57	69
105°	66	61	55	49	45	70
115°	45	41	41	35	35	45
125°	29	25	27	22	25	25
135°	16	14	14	14	16	13
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°	1250.8	1250.8	1250.8	1250.8	1250.8
2.5°	1250.8	1248.7	1248.7	1248.7	1248.7
5°	1246.7	1244.6	1244.6	1242.6	1242.6
7.5°	1244.6	1240.5	1238.5	1236.4	1236.4
10°	1238.5	1234.4	1230.3	1226.2	1226.2
12.5°	1230.3	1226.2	1220.1	1211.9	1211.9
15°	1220.1	1213.9	1205.7	1197.5	1193.4
17.5°	1207.8	1201.6	1189.3	1177.1	1173.0
20°	1191.4	1183.2	1170.9	1154.5	1150.5
22.5°	1173.0	1164.8	1146.4	1130.0	1121.8
25°	1152.5	1142.3	1121.8	1101.3	1093.1
27.5°	1127.9	1117.7	1095.2	1070.6	1060.4
30°	1101.3	1089.0	1064.5	1037.9	1025.6
32.5°	1072.7	1058.3	1031.7	1003.1	990.8
35°	1042.0	1027.6	999.0	968.3	953.9
37.5°	1009.2	994.9	964.2	931.4	917.1
40°	972.4	958.0	925.3	892.5	876.1
42.5°	933.5	921.2	888.4	853.6	837.2
45°	896.6	880.2	847.5	812.7	798.4
47.5°	853.6	841.3	806.5	771.7	755.4
50°	812.7	798.4	765.6	730.8	712.4
52.5°	769.7	757.4	722.6	687.8	671.4
55°	726.7	710.3	677.6	644.8	628.4
57.5°	681.7	667.3	634.6	603.9	583.4
60°	636.6	622.3	587.5	558.8	536.3
62.5°	593.6	577.3	540.4	509.7	491.3
65°	548.6	528.1	491.3	464.7	446.3
67.5°	505.6	481.1	444.2	419.6	401.2
70°	464.7	436.0	399.2	374.6	356.2
72.5°	423.7	388.9	350.0	327.5	311.2
75°	382.8	343.9	305.0	282.5	266.1
77.5°	341.9	296.8	257.9	239.5	223.1
80°	292.7	249.7	212.9	196.5	180.1
82.5°	237.5	202.7	172.0	155.6	143.3
85°	184.2	159.7	135.1	122.8	110.5
87.5°	143.3	124.9	106.4	96.2	86.0
90°	110.5	100.3	86.0	77.8	65.5
92.5°	96.2	88.0	77.8	69.6	59.4
95°	88.0	81.9	73.7	65.5	57.3
97.5°	79.8	75.7	67.6	61.4	53.2
100°	75.7	69.6	63.5	57.3	51.2
102.5°	71.6	65.5	59.4	53.2	49.1
105°	65.5	61.4	55.3	49.1	45.0
107.5°	61.4	55.3	51.2	45.0	43.0
110°	55.3	51.2	47.1	43.0	40.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	49.1	47.1	43.0	38.9	36.8
115°	45.0	40.9	40.9	34.8	34.8
117.5°	40.9	36.8	36.8	32.8	32.8
120°	34.8	32.8	32.8	28.7	28.7
122.5°	30.7	28.7	28.7	26.6	26.6
125°	28.7	24.6	26.6	22.5	24.6
127.5°	24.6	22.5	22.5	20.5	22.5
130°	20.5	18.4	18.4	18.4	20.5
132.5°	18.4	16.4	16.4	16.4	18.4
135°	16.4	14.3	14.3	14.3	16.4
137.5°	14.3	12.3	10.2	12.3	14.3
140°	12.3	10.2	8.2	10.2	12.3
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)