

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: P384237

Luminaire Tested: **14ID-35-L850-CFD2**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384237
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-35-L850-CFD2
Description: 1X4 IN DEPTH TROFFER WITH 2INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

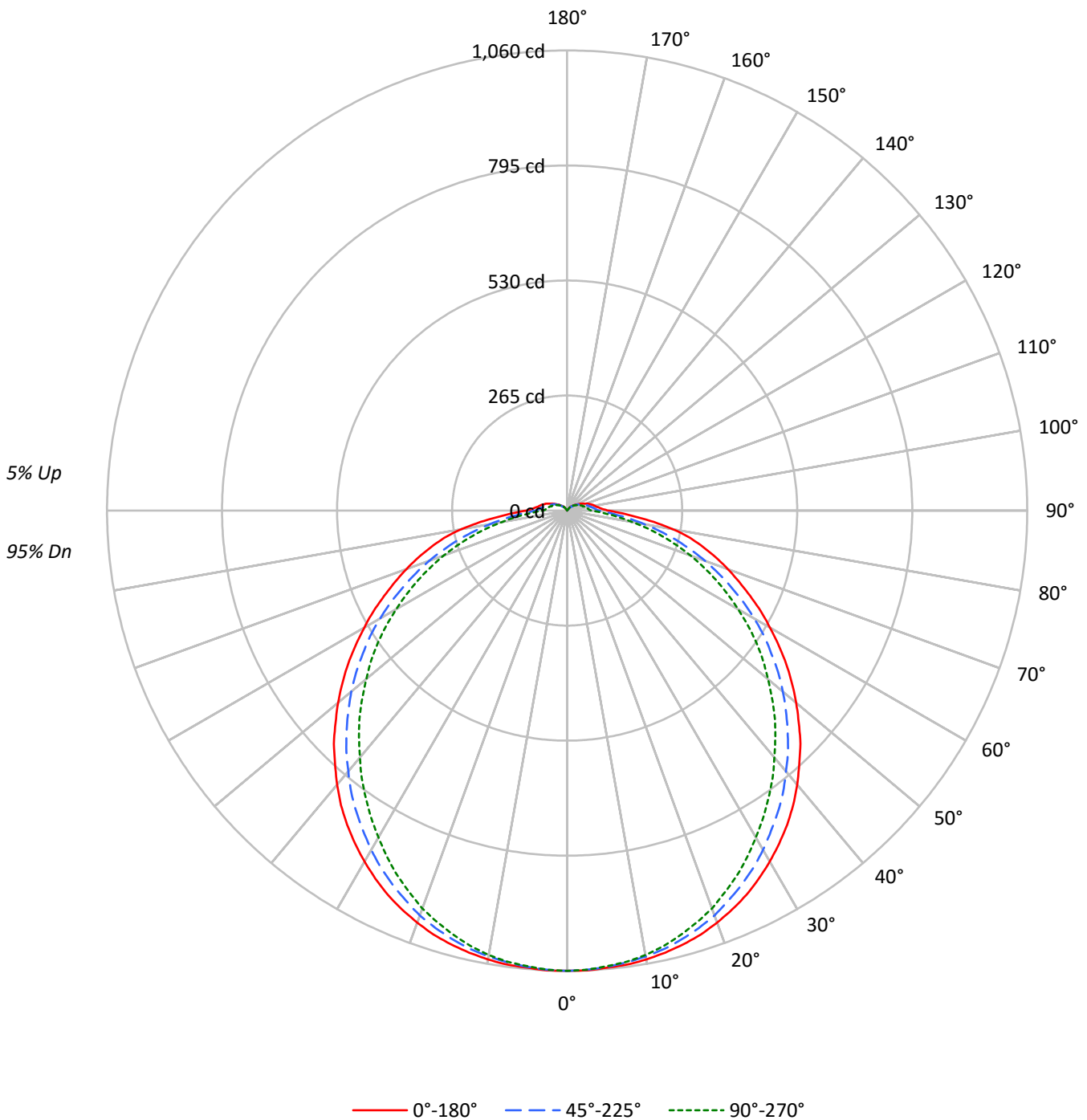
Lumens per Lamp: N/A
Luminaire Lumens: 3439.0 lumens
Efficiency: N/A
Efficacy: 120.7 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.22 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.17')
CIE Type: Direct

Input Watts (W): 28.5
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	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°	2853	2853	2853
5°	2844	2814	2805
10°	2848	2778	2759
15°	2850	2739	2698
20°	2849	2698	2633
25°	2846	2642	2553
30°	2833	2584	2464
35°	2819	2522	2379
40°	2798	2452	2289
45°	2777	2383	2208
50°	2748	2311	2109
55°	2728	2226	2019
60°	2709	2135	1899
65°	2719	2015	1775
70°	2781	1895	1630
75°	2920	1735	1446
80°	3111	1524	1216
85°	3267	1317	996



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.4	2.9
10°-20°	288.6	8.4
20°-30°	438.3	12.7
30°-40°	529.4	15.4
40°-50°	554.1	16.1
50°-60°	514.2	15.0
60°-70°	416.5	12.1
70°-80°	281.0	8.2
80°-90°	135.8	3.9
90°-100°	68.3	2.0
100°-110°	49.7	1.4
110°-120°	33.2	1.0
120°-130°	19.2	0.6
130°-140°	9.7	0.3
140°-150°	0.7	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	827.2	24.1
0°-40°	1356.6	39.4
0°-60°	2424.9	70.5
0°-90°	3258.2	94.7
90°-120°	151.1	4.4
90°-150°	180.8	5.3
90°-180°	181.0	5.3
0°-180°	3439.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1060	1060	1060	1060	1060	
5°	1057	1055	1055	1053	1053	101
15°	1034	1029	1022	1015	1012	292
25°	977	968	951	934	927	450
35°	883	871	847	821	809	553
45°	760	746	718	689	677	586
55°	616	602	574	547	533	551
65°	465	448	416	394	378	462
75°	324	292	259	240	226	342
85°	156	135	114	104	94	148
90°	94	85	73	66	56	54
95°	75	69	62	56	49	59
105°	56	52	47	42	38	59
115°	38	35	35	30	30	38
125°	24	21	23	19	21	21
135°	14	12	12	12	14	11
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°	1060.3	1060.3	1060.3	1060.3	1060.3
2.5°	1060.3	1058.6	1058.6	1058.6	1058.6
5°	1056.8	1055.1	1055.1	1053.4	1053.4
7.5°	1055.1	1051.6	1049.9	1048.2	1048.2
10°	1049.9	1046.4	1043.0	1039.5	1039.5
12.5°	1043.0	1039.5	1034.3	1027.3	1027.3
15°	1034.3	1029.1	1022.1	1015.2	1011.7
17.5°	1023.9	1018.7	1008.2	997.8	994.4
20°	1010.0	1003.0	992.6	978.7	975.3
22.5°	994.4	987.4	971.8	957.9	951.0
25°	977.0	968.3	951.0	933.6	926.7
27.5°	956.2	947.5	928.4	907.6	898.9
30°	933.6	923.2	902.4	879.8	869.4
32.5°	909.3	897.2	874.6	850.3	839.9
35°	883.3	871.2	846.9	820.8	808.7
37.5°	855.5	843.4	817.4	789.6	777.4
40°	824.3	812.2	784.4	756.6	742.7
42.5°	791.3	780.9	753.1	723.6	709.8
45°	760.1	746.2	718.4	688.9	676.8
47.5°	723.6	713.2	683.7	654.2	640.3
50°	688.9	676.8	649.0	619.5	603.9
52.5°	652.5	642.1	612.6	583.1	569.2
55°	616.1	602.2	574.4	546.6	532.8
57.5°	577.9	565.7	538.0	511.9	494.6
60°	539.7	527.6	498.0	473.8	454.7
62.5°	503.3	489.4	458.1	432.1	416.5
65°	465.1	447.7	416.5	393.9	378.3
67.5°	428.6	407.8	376.6	355.7	340.1
70°	393.9	369.6	338.4	317.6	302.0
72.5°	359.2	329.7	296.7	277.7	263.8
75°	324.5	291.5	258.6	239.5	225.6
77.5°	289.8	251.6	218.7	203.0	189.2
80°	248.2	211.7	180.5	166.6	152.7
82.5°	201.3	171.8	145.8	131.9	121.5
85°	156.2	135.4	114.5	104.1	93.7
87.5°	121.5	105.9	90.2	81.6	72.9
90°	93.7	85.0	72.9	65.9	55.5
92.5°	81.6	74.6	65.9	59.0	50.3
95°	74.6	69.4	62.5	55.5	48.6
97.5°	67.7	64.2	57.3	52.1	45.1
100°	64.2	59.0	53.8	48.6	43.4
102.5°	60.7	55.5	50.3	45.1	41.6
105°	55.5	52.1	46.9	41.6	38.2
107.5°	52.1	46.9	43.4	38.2	36.4
110°	46.9	43.4	39.9	36.4	34.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	41.6	39.9	36.4	33.0	31.2
115°	38.2	34.7	34.7	29.5	29.5
117.5°	34.7	31.2	31.2	27.8	27.8
120°	29.5	27.8	27.8	24.3	24.3
122.5°	26.0	24.3	24.3	22.6	22.6
125°	24.3	20.8	22.6	19.1	20.8
127.5°	20.8	19.1	19.1	17.4	19.1
130°	17.4	15.6	15.6	15.6	17.4
132.5°	15.6	13.9	13.9	13.9	15.6
135°	13.9	12.1	12.1	12.1	13.9
137.5°	12.1	10.4	8.7	10.4	12.1
140°	10.4	8.7	6.9	8.7	10.4
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)