

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: P384613

Luminaire Tested: **14ID-85-L850-CFD3**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384613
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-69)
Test Lab: INNOVATION CENTER (G2)
Issue Date: 2/25/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 14ID-85-L850-CFD3
Description: 1X4 IN DEPTH TROFFER WITH 3INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

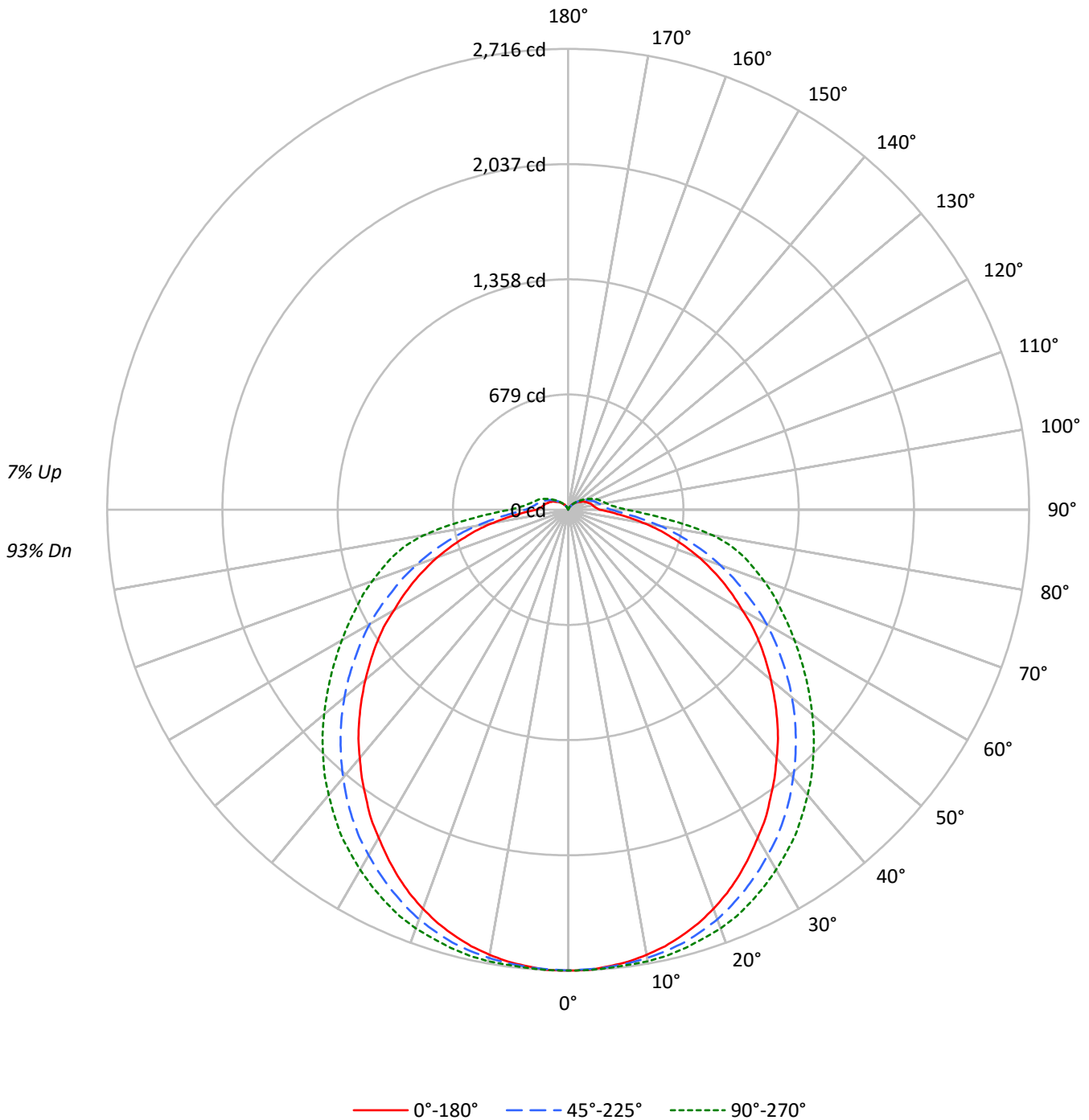
Lumens per Lamp: N/A
Luminaire Lumens: 9504.0 lumens
Efficiency: N/A
Efficacy: 114.1 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.25')
CIE Type: Direct

Input Watts (W): 83.3
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	117	117	117	117	114	114	114	114	107	107	107	101	101	101	95	95	95	93
1	105	100	95	91	102	97	93	89	91	88	84	86	83	80	81	79	77	74
2	95	86	79	73	92	84	77	71	79	73	68	74	70	66	70	67	63	60
3	86	75	66	60	83	73	65	59	69	62	57	65	59	55	62	57	53	50
4	79	66	57	50	76	64	56	49	61	54	48	58	51	46	55	49	45	42
5	72	59	50	43	70	57	49	42	54	47	41	52	45	40	49	43	39	36
6	67	53	44	37	64	52	43	37	49	41	36	47	40	35	44	39	34	32
7	62	48	39	33	60	47	38	32	44	37	31	42	36	31	40	35	30	28
8	57	44	35	29	55	43	34	29	41	33	28	39	32	27	37	31	27	25
9	54	40	32	26	52	39	31	26	37	30	25	36	29	25	34	28	24	22
10	50	37	29	23	49	36	28	23	35	28	23	33	27	22	32	26	22	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7308	7308	7308
5°	7258	7172	7167
10°	7199	7056	7071
15°	7117	6944	6980
20°	7007	6809	6893
25°	6865	6647	6781
30°	6695	6478	6654
35°	6534	6311	6533
40°	6375	6110	6372
45°	6230	5909	6220
50°	6076	5701	6054
55°	5941	5477	5899
60°	5755	5258	5785
65°	5642	4955	5717
70°	5506	4664	5726
75°	5315	4267	5762
80°	5152	3781	5529
85°	5207	3196	4439



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	257.5	2.7
10°-20°	744.2	7.8
20°-30°	1137.0	12.0
30°-40°	1384.0	14.6
40°-50°	1462.8	15.4
50°-60°	1380.8	14.5
60°-70°	1161.7	12.2
70°-80°	837.5	8.8
80°-90°	441.7	4.6
90°-100°	236.4	2.5
100°-110°	179.6	1.9
110°-120°	130.2	1.4
120°-130°	81.8	0.9
130°-140°	44.2	0.5
140°-150°	19.3	0.2
150°-160°	5.2	0.1
160°-170°	0.2	0.0
170°-180°	0.0	0.0
0°-30°	2138.6	22.5
0°-40°	3522.6	37.1
0°-60°	6366.2	67.0
0°-90°	8807.2	92.7
90°-120°	546.2	5.7
90°-150°	691.5	7.3
90°-180°	697.0	7.3
0°-180°	9504.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2716	2716	2716	2716	2716	
5°	2702	2702	2706	2706	2711	257
15°	2597	2607	2640	2659	2673	733
25°	2379	2408	2469	2526	2550	1096
35°	2076	2123	2218	2304	2337	1300
45°	1740	1792	1896	2000	2043	1343
55°	1379	1441	1536	1650	1706	1233
65°	1005	1062	1147	1289	1379	993
75°	630	682	749	896	1071	669
85°	289	327	365	455	555	271
90°	185	218	251	299	341	106
95°	161	185	213	242	261	128
105°	138	152	171	190	199	144
115°	109	118	133	142	152	110
125°	81	81	95	95	100	72
135°	57	52	57	57	62	43
145°	33	28	28	28	33	21
155°	14	14	5	10	14	7
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°	2715.9	2715.9	2715.9	2715.9	2715.9
2.5°	2715.9	2711.2	2711.2	2711.2	2715.9
5°	2701.7	2701.7	2706.4	2706.4	2711.2
7.5°	2687.5	2687.5	2696.9	2701.7	2706.4
10°	2663.8	2668.5	2682.7	2692.2	2701.7
12.5°	2635.3	2640.1	2663.8	2682.7	2692.2
15°	2597.4	2606.9	2640.1	2659.0	2673.2
17.5°	2554.8	2569.0	2606.9	2635.3	2649.5
20°	2502.6	2521.6	2569.0	2606.9	2625.9
22.5°	2445.7	2464.7	2521.6	2569.0	2592.7
25°	2379.4	2407.8	2469.4	2526.3	2550.0
27.5°	2308.3	2341.5	2412.6	2478.9	2502.6
30°	2232.4	2270.4	2350.9	2422.0	2450.5
32.5°	2161.3	2199.3	2289.3	2365.2	2393.6
35°	2076.0	2123.4	2218.2	2303.5	2336.7
37.5°	1995.5	2042.9	2142.4	2232.4	2265.6
40°	1910.1	1957.5	2061.8	2161.3	2194.5
42.5°	1829.6	1877.0	1981.2	2085.5	2123.4
45°	1739.5	1791.6	1895.9	2000.2	2042.9
47.5°	1649.5	1701.6	1810.6	1919.6	1962.3
50°	1559.4	1616.3	1720.5	1829.6	1877.0
52.5°	1469.3	1526.2	1630.5	1744.2	1791.6
55°	1379.3	1440.9	1535.7	1649.5	1706.3
57.5°	1289.2	1350.8	1445.6	1564.1	1621.0
60°	1185.0	1256.0	1350.8	1474.1	1540.4
62.5°	1094.9	1156.5	1251.3	1379.3	1459.9
65°	1004.8	1061.7	1147.0	1289.2	1379.3
67.5°	910.0	971.7	1052.2	1185.0	1308.2
70°	820.0	872.1	952.7	1090.2	1227.6
72.5°	725.2	777.3	853.2	995.4	1147.0
75°	630.4	682.5	748.9	895.8	1071.2
77.5°	545.1	587.7	649.4	791.5	981.1
80°	450.3	492.9	549.8	677.8	862.6
82.5°	365.0	402.9	450.3	564.0	711.0
85°	289.1	327.0	365.0	455.0	554.6
87.5°	232.3	260.7	298.6	365.0	431.3
90°	184.9	218.0	251.2	298.6	341.3
92.5°	170.6	199.1	227.5	265.4	293.9
95°	161.2	184.9	213.3	241.7	260.7
97.5°	151.7	175.4	199.1	227.5	241.7
100°	146.9	165.9	189.6	213.3	222.8
102.5°	142.2	156.4	180.1	199.1	213.3
105°	137.5	151.7	170.6	189.6	199.1
107.5°	128.0	142.2	161.2	180.1	189.6
110°	123.2	132.7	151.7	165.9	180.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	118.5	128.0	142.2	156.4	165.9
115°	109.0	118.5	132.7	142.2	151.7
117.5°	104.3	109.0	123.2	128.0	137.5
120°	94.8	99.5	113.8	118.5	123.2
122.5°	85.3	90.1	104.3	104.3	113.8
125°	80.6	80.6	94.8	94.8	99.5
127.5°	75.8	75.8	85.3	85.3	90.1
130°	66.4	66.4	75.8	75.8	75.8
132.5°	61.6	56.9	66.4	66.4	71.1
135°	56.9	52.1	56.9	56.9	61.6
137.5°	47.4	47.4	52.1	47.4	52.1
140°	42.7	37.9	42.7	42.7	47.4
142.5°	37.9	33.2	37.9	33.2	37.9
145°	33.2	28.4	28.4	28.4	33.2
147.5°	28.4	23.7	23.7	23.7	28.4
150°	23.7	19.0	19.0	19.0	23.7
152.5°	19.0	14.2	9.5	14.2	19.0
155°	14.2	14.2	4.7	9.5	14.2
157.5°	9.5	9.5	0.0	4.7	9.5
160°	4.7	4.7	0.0	4.7	4.7
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)