

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: P384107

Luminaire Tested: **14ID-85-L835-CFD1**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384107
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: 14ID-85-L835-CFD1
Description: 1X4 IN DEPTH TROFFER WITH 1INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

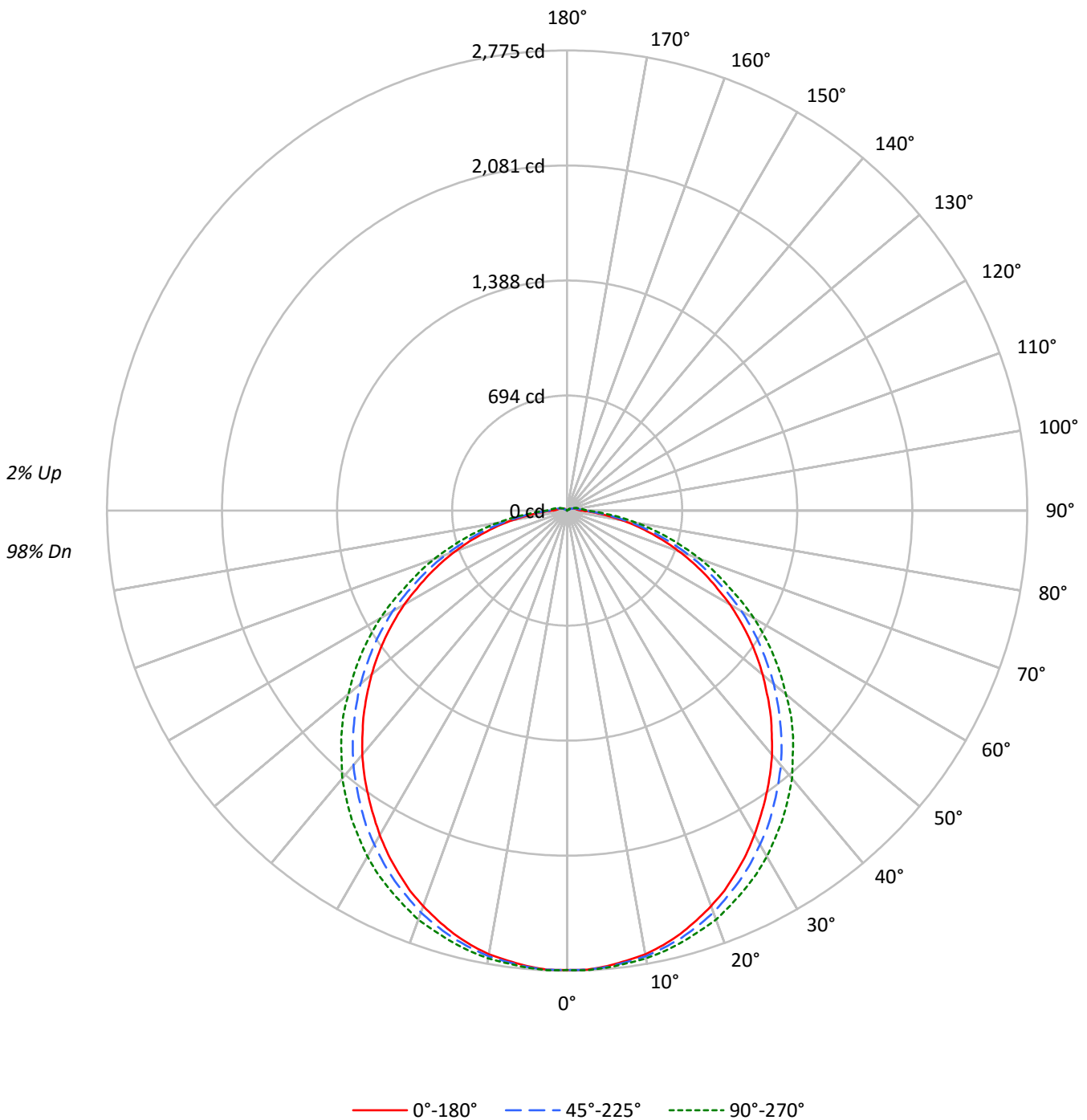
Lumens per Lamp: N/A
Luminaire Lumens: 8206.2 lumens
Efficiency: N/A
Efficacy: 98.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.08')
CIE Type: Direct

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	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°	7456	7456	7456
5°	7437	7414	7419
10°	7396	7362	7383
15°	7319	7286	7335
20°	7213	7194	7297
25°	7083	7070	7218
30°	6936	6932	7141
35°	6776	6784	7038
40°	6636	6634	6926
45°	6468	6445	6767
50°	6288	6261	6560
55°	6103	6040	6367
60°	5900	5799	6125
65°	5630	5445	5753
70°	5326	5091	5461
75°	4977	4615	5016
80°	4613	4048	4467
85°	4462	3487	3816



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	262.4	3.2
10°-20°	752.2	9.2
20°-30°	1135.7	13.8
30°-40°	1360.8	16.6
40°-50°	1406.9	17.1
50°-60°	1274.0	15.5
60°-70°	985.9	12.0
70°-80°	605.6	7.4
80°-90°	240.6	2.9
90°-100°	87.8	1.1
100°-110°	53.9	0.7
110°-120°	27.7	0.3
120°-130°	11.8	0.1
130°-140°	0.8	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°	2150.3	26.2
0°-40°	3511.1	42.8
0°-60°	6192.0	75.5
0°-90°	8024.1	97.8
90°-120°	169.4	2.1
90°-150°	182.1	2.2
90°-180°	182.0	2.2
0°-180°	8206.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2771	2771	2771	2771	2771	
5°	2758	2758	2762	2762	2767	262
15°	2642	2646	2667	2683	2692	745
25°	2409	2426	2463	2504	2525	1110
35°	2093	2118	2172	2230	2267	1310
45°	1735	1756	1818	1893	1926	1337
55°	1340	1369	1423	1485	1518	1197
65°	924	944	990	1040	1065	914
75°	516	541	566	603	632	550
85°	179	191	208	229	241	178
90°	83	96	104	116	125	49
95°	62	71	79	87	96	50
105°	46	46	50	54	58	48
115°	29	25	25	29	33	30
125°	17	12	8	12	17	16
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°	2770.8	2770.8	2770.8	2770.8	2770.8
2.5°	2770.8	2766.6	2770.8	2770.8	2775.0
5°	2758.3	2758.3	2762.5	2762.5	2766.6
7.5°	2737.5	2737.5	2745.8	2750.0	2754.1
10°	2716.7	2716.7	2729.2	2733.3	2741.7
12.5°	2683.4	2687.6	2700.1	2712.5	2720.9
15°	2641.8	2646.0	2666.8	2683.4	2691.7
17.5°	2591.9	2600.2	2625.2	2650.1	2658.5
20°	2537.8	2550.3	2579.4	2608.5	2625.2
22.5°	2479.6	2487.9	2521.2	2558.6	2575.3
25°	2408.8	2425.5	2462.9	2504.5	2525.3
27.5°	2338.1	2354.8	2396.4	2446.3	2471.2
30°	2259.1	2275.7	2325.6	2379.7	2408.8
32.5°	2175.9	2196.7	2254.9	2309.0	2338.1
35°	2092.7	2117.6	2171.7	2229.9	2267.4
37.5°	2009.4	2030.2	2088.5	2150.9	2188.3
40°	1922.1	1942.9	2005.3	2067.7	2109.3
42.5°	1826.4	1851.4	1913.8	1980.3	2013.6
45°	1734.9	1755.7	1818.1	1893.0	1926.2
47.5°	1635.0	1664.1	1722.4	1793.1	1830.6
50°	1539.3	1564.3	1626.7	1693.3	1722.4
52.5°	1439.5	1464.4	1522.7	1589.3	1622.5
55°	1339.6	1368.8	1422.8	1485.2	1518.5
57.5°	1235.6	1264.7	1318.8	1372.9	1410.4
60°	1135.8	1164.9	1214.8	1268.9	1302.2
62.5°	1023.4	1048.4	1102.5	1160.7	1185.7
65°	923.6	944.4	990.2	1040.1	1065.0
67.5°	819.6	844.6	886.2	931.9	961.0
70°	715.6	744.7	778.0	819.6	852.9
72.5°	615.7	640.7	669.8	711.4	740.5
75°	515.9	540.8	565.8	603.3	632.4
77.5°	428.5	441.0	466.0	499.2	528.4
80°	332.8	349.5	370.3	403.6	424.4
82.5°	249.6	266.3	282.9	307.9	328.7
85°	178.9	191.4	208.0	228.8	241.3
87.5°	120.7	133.1	145.6	162.3	174.7
90°	83.2	95.7	104.0	116.5	124.8
92.5°	70.7	79.0	87.4	95.7	104.0
95°	62.4	70.7	79.0	87.4	95.7
97.5°	58.2	62.4	70.7	79.0	83.2
100°	54.1	58.2	62.4	70.7	74.9
102.5°	49.9	49.9	58.2	62.4	66.6
105°	45.8	45.8	49.9	54.1	58.2
107.5°	41.6	41.6	45.8	45.8	54.1
110°	37.4	33.3	37.4	37.4	45.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	33.3	29.1	33.3	33.3	37.4
115°	29.1	25.0	25.0	29.1	33.3
117.5°	25.0	20.8	20.8	20.8	29.1
120°	25.0	20.8	16.6	16.6	25.0
122.5°	20.8	16.6	12.5	16.6	20.8
125°	16.6	12.5	8.3	12.5	16.6
127.5°	12.5	12.5	4.2	8.3	12.5
130°	12.5	8.3	4.2	8.3	8.3
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)