

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: P384103

Luminaire Tested: **14ID-80-L835-CFD1**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P384103  
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-80-L835-CFD1  
Description: 1X4 IN DEPTH TROFFER WITH 1INCH DROP CUBE LENS

Light Source: -  
Ballast/Driver: -

**Summary**

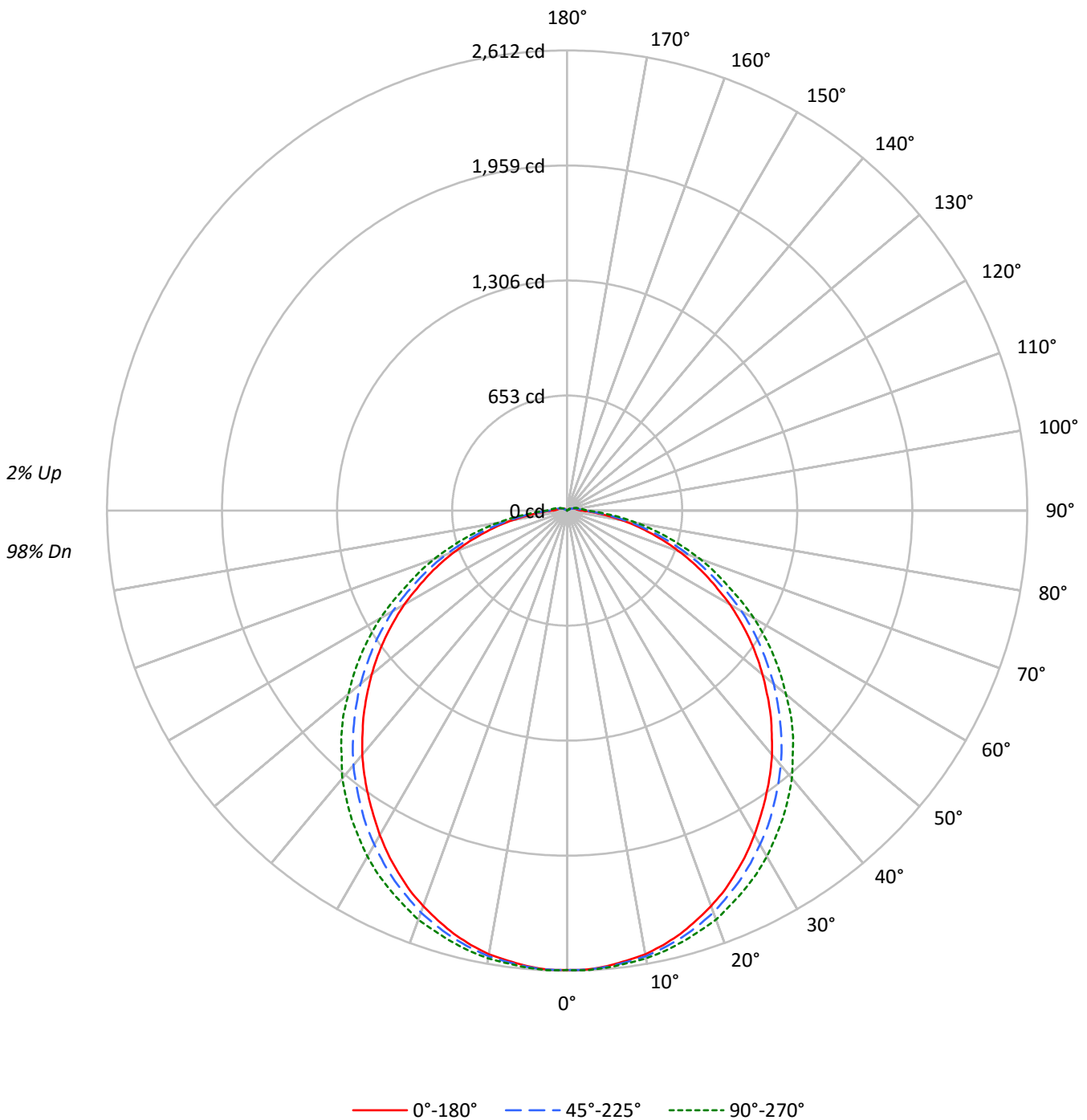
Lumens per Lamp: N/A  
Luminaire Lumens: 7723.7 lumens  
Efficiency: N/A  
Efficacy: 100.2 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.37  
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.08')  
CIE Type: Direct

Input Watts (W): 77.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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°	7018	7018	7018
5°	7000	6978	6983
10°	6961	6929	6949
15°	6889	6857	6904
20°	6789	6771	6867
25°	6667	6654	6793
30°	6528	6524	6722
35°	6377	6385	6624
40°	6246	6244	6518
45°	6087	6066	6369
50°	5918	5893	6174
55°	5745	5685	5992
60°	5553	5458	5764
65°	5299	5125	5415
70°	5012	4792	5139
75°	4685	4343	4721
80°	4342	3810	4204
85°	4200	3283	3592



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	247.0	3.2
10°-20°	708.0	9.2
20°-30°	1068.9	13.8
30°-40°	1280.8	16.6
40°-50°	1324.2	17.1
50°-60°	1199.1	15.5
60°-70°	927.9	12.0
70°-80°	570.0	7.4
80°-90°	226.5	2.9
90°-100°	82.6	1.1
100°-110°	50.8	0.7
110°-120°	26.1	0.3
120°-130°	11.1	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°	2023.9	26.2
0°-40°	3304.7	42.8
0°-60°	5827.9	75.5
0°-90°	7552.3	97.8
90°-120°	159.5	2.1
90°-150°	171.4	2.2
90°-180°	171.0	2.2
0°-180°	7723.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2608	2608	2608	2608	2608	
5°	2596	2596	2600	2600	2604	246
15°	2486	2490	2510	2526	2534	701
25°	2267	2283	2318	2357	2377	1045
35°	1970	1993	2044	2099	2134	1233
45°	1633	1652	1711	1782	1813	1258
55°	1261	1288	1339	1398	1429	1127
65°	869	889	932	979	1002	860
75°	486	509	532	568	595	517
85°	168	180	196	215	227	168
90°	78	90	98	110	118	46
95°	59	67	74	82	90	47
105°	43	43	47	51	55	46
115°	27	24	24	27	31	28
125°	16	12	8	12	16	15
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°	2607.9	2607.9	2607.9	2607.9	2607.9
2.5°	2607.9	2604.0	2607.9	2607.9	2611.8
5°	2596.1	2596.1	2600.0	2600.0	2604.0
7.5°	2576.6	2576.6	2584.4	2588.3	2592.2
10°	2557.0	2557.0	2568.7	2572.6	2580.5
12.5°	2525.6	2529.6	2541.3	2553.1	2560.9
15°	2486.5	2490.4	2510.0	2525.6	2533.5
17.5°	2439.5	2447.3	2470.8	2494.3	2502.2
20°	2388.6	2400.3	2427.8	2455.2	2470.8
22.5°	2333.8	2341.6	2372.9	2408.2	2423.8
25°	2267.2	2282.9	2318.1	2357.3	2376.8
27.5°	2200.6	2216.3	2255.5	2302.4	2325.9
30°	2126.2	2141.9	2188.9	2239.8	2267.2
32.5°	2047.9	2067.5	2122.3	2173.2	2200.6
35°	1969.6	1993.1	2044.0	2098.8	2134.1
37.5°	1891.3	1910.9	1965.7	2024.4	2059.7
40°	1809.1	1828.6	1887.4	1946.1	1985.3
42.5°	1719.0	1742.5	1801.2	1863.9	1895.2
45°	1632.9	1652.4	1711.2	1781.7	1813.0
47.5°	1538.9	1566.3	1621.1	1687.7	1722.9
50°	1448.8	1472.3	1531.1	1593.7	1621.1
52.5°	1354.8	1378.3	1433.2	1495.8	1527.1
55°	1260.9	1288.3	1339.2	1397.9	1429.2
57.5°	1163.0	1190.4	1241.3	1292.2	1327.4
60°	1069.0	1096.4	1143.4	1194.3	1225.6
62.5°	963.3	986.8	1037.7	1092.5	1116.0
65°	869.3	888.9	931.9	978.9	1002.4
67.5°	771.4	794.9	834.1	877.1	904.5
70°	673.5	700.9	732.2	771.4	802.7
72.5°	579.5	603.0	630.4	669.6	697.0
75°	485.6	509.0	532.5	567.8	595.2
77.5°	403.3	415.1	438.6	469.9	497.3
80°	313.3	328.9	348.5	379.8	399.4
82.5°	234.9	250.6	266.3	289.8	309.3
85°	168.4	180.1	195.8	215.4	227.1
87.5°	113.6	125.3	137.1	152.7	164.5
90°	78.3	90.1	97.9	109.6	117.5
92.5°	66.6	74.4	82.2	90.1	97.9
95°	58.7	66.6	74.4	82.2	90.1
97.5°	54.8	58.7	66.6	74.4	78.3
100°	50.9	54.8	58.7	66.6	70.5
102.5°	47.0	47.0	54.8	58.7	62.7
105°	43.1	43.1	47.0	50.9	54.8
107.5°	39.2	39.2	43.1	43.1	50.9
110°	35.2	31.3	35.2	35.2	43.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	31.3	27.4	31.3	31.3	35.2
115°	27.4	23.5	23.5	27.4	31.3
117.5°	23.5	19.6	19.6	19.6	27.4
120°	23.5	19.6	15.7	15.7	23.5
122.5°	19.6	15.7	11.7	15.7	19.6
125°	15.7	11.7	7.8	11.7	15.7
127.5°	11.7	11.7	3.9	7.8	11.7
130°	11.7	7.8	3.9	7.8	7.8
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)