

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: P384116

Luminaire Tested: **22ID-25-L840-CFD1**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P384116  
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: 22ID-25-L840-CFD1  
Description: 2X2 IN DEPTH TROFFER WITH 1INCH DROP CUBE LENS

Light Source: -  
Ballast/Driver: -

**Summary**

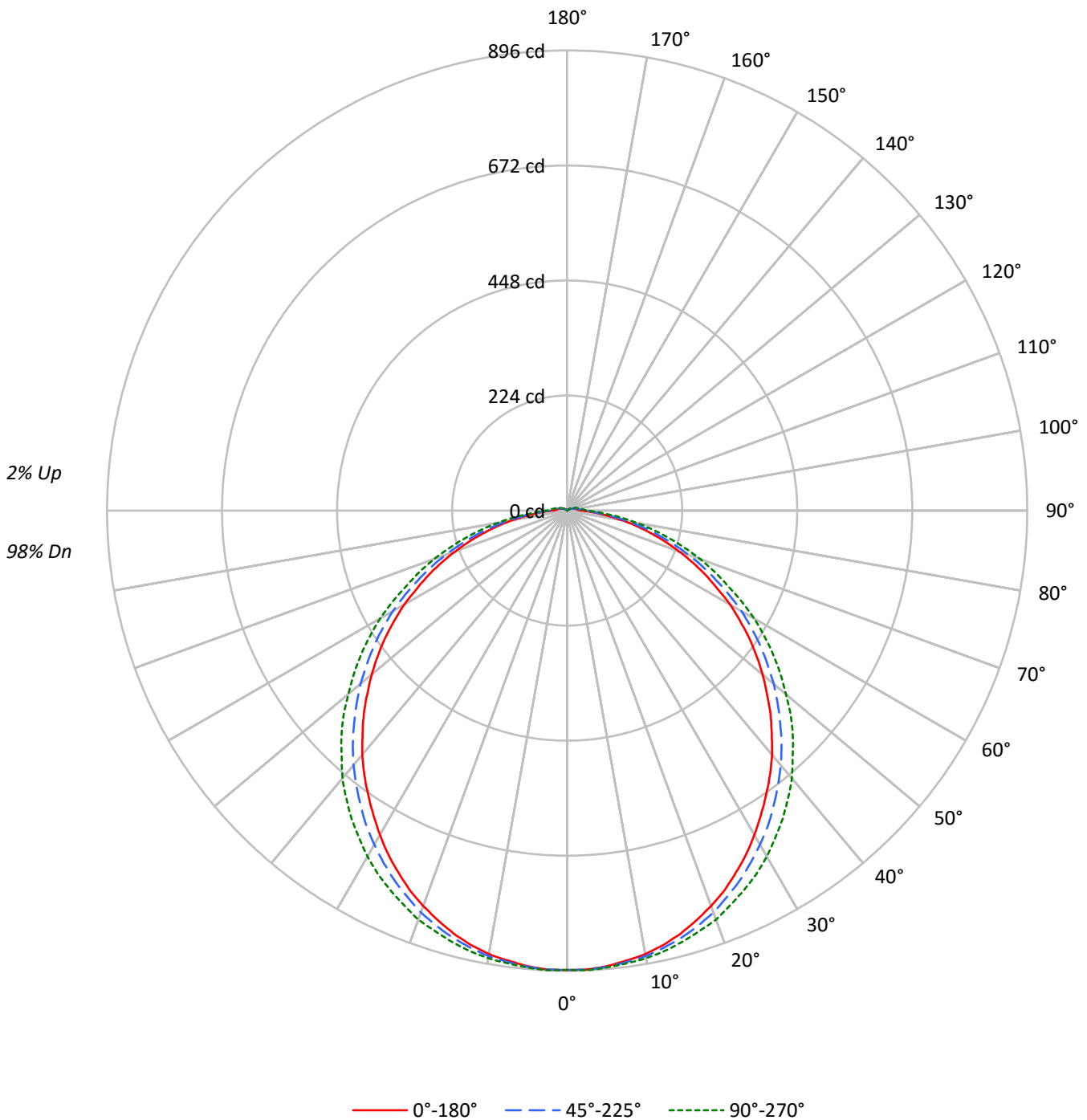
Lumens per Lamp: N/A  
Luminaire Lumens: 2649.1 lumens  
Efficiency: N/A  
Efficacy: 128.0 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.37  
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.08')  
CIE Type: Direct

Input Watts (W): 20.7  
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°	2407	2407	2407
5°	2396	2397	2404
10°	2379	2383	2401
15°	2350	2361	2394
20°	2311	2335	2391
25°	2265	2298	2374
30°	2213	2256	2359
35°	2156	2212	2337
40°	2106	2167	2311
45°	2046	2109	2272
50°	1982	2054	2218
55°	1915	1988	2171
60°	1840	1915	2110
65°	1743	1807	2010
70°	1631	1700	1944
75°	1498	1557	1837
80°	1346	1388	1717
85°	1209	1240	1629



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	84.7	3.2
10°-20°	242.8	9.2
20°-30°	366.6	13.8
30°-40°	439.3	16.6
40°-50°	454.2	17.1
50°-60°	411.3	15.5
60°-70°	318.2	12.0
70°-80°	195.5	7.4
80°-90°	77.7	2.9
90°-100°	28.3	1.1
100°-110°	17.4	0.7
110°-120°	9.0	0.3
120°-130°	3.8	0.1
130°-140°	0.3	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°	694.2	26.2
0°-40°	1133.5	42.8
0°-60°	1998.9	75.5
0°-90°	2590.3	97.8
90°-120°	54.7	2.1
90°-150°	58.8	2.2
90°-180°	59.0	2.2
0°-180°	2649.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	894	894	894	894	894	
5°	890	890	892	892	893	85
15°	853	854	861	866	869	240
25°	778	783	795	808	815	358
35°	676	684	701	720	732	423
45°	560	567	587	611	622	432
55°	432	442	459	480	490	386
65°	298	305	320	336	344	295
75°	166	175	183	195	204	177
85°	58	62	67	74	78	58
90°	27	31	34	38	40	16
95°	20	23	26	28	31	16
105°	15	15	16	18	19	16
115°	9	8	8	9	11	10
125°	5	4	3	4	5	5
135°	0	0	0	0	0	0
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°	894.5	894.5	894.5	894.5	894.5
2.5°	894.5	893.1	894.5	894.5	895.8
5°	890.4	890.4	891.8	891.8	893.1
7.5°	883.7	883.7	886.4	887.7	889.1
10°	877.0	877.0	881.0	882.4	885.1
12.5°	866.3	867.6	871.6	875.7	878.3
15°	852.8	854.2	860.9	866.3	868.9
17.5°	836.7	839.4	847.5	855.5	858.2
20°	819.2	823.3	832.7	842.1	847.5
22.5°	800.4	803.1	813.9	826.0	831.3
25°	777.6	783.0	795.1	808.5	815.2
27.5°	754.8	760.2	773.6	789.7	797.8
30°	729.3	734.6	750.8	768.2	777.6
32.5°	702.4	709.1	727.9	745.4	754.8
35°	675.5	683.6	701.1	719.9	732.0
37.5°	648.7	655.4	674.2	694.3	706.4
40°	620.5	627.2	647.3	667.5	680.9
42.5°	589.6	597.6	617.8	639.3	650.0
45°	560.0	566.8	586.9	611.1	621.8
47.5°	527.8	537.2	556.0	578.8	590.9
50°	496.9	505.0	525.1	546.6	556.0
52.5°	464.7	472.7	491.5	513.0	523.8
55°	432.5	441.9	459.3	479.5	490.2
57.5°	398.9	408.3	425.7	443.2	455.3
60°	366.6	376.0	392.2	409.6	420.4
62.5°	330.4	338.4	355.9	374.7	382.8
65°	298.2	304.9	319.6	335.8	343.8
67.5°	264.6	272.6	286.1	300.8	310.2
70°	231.0	240.4	251.1	264.6	275.3
72.5°	198.8	206.8	216.2	229.7	239.1
75°	166.5	174.6	182.7	194.7	204.1
77.5°	138.3	142.4	150.4	161.2	170.6
80°	107.4	112.8	119.5	130.3	137.0
82.5°	80.6	86.0	91.3	99.4	106.1
85°	57.8	61.8	67.2	73.9	77.9
87.5°	38.9	43.0	47.0	52.4	56.4
90°	26.9	30.9	33.6	37.6	40.3
92.5°	22.8	25.5	28.2	30.9	33.6
95°	20.1	22.8	25.5	28.2	30.9
97.5°	18.8	20.1	22.8	25.5	26.9
100°	17.5	18.8	20.1	22.8	24.2
102.5°	16.1	16.1	18.8	20.1	21.5
105°	14.8	14.8	16.1	17.5	18.8
107.5°	13.4	13.4	14.8	14.8	17.5
110°	12.1	10.7	12.1	12.1	14.8



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	10.7	9.4	10.7	10.7	12.1
115°	9.4	8.1	8.1	9.4	10.7
117.5°	8.1	6.7	6.7	6.7	9.4
120°	8.1	6.7	5.4	5.4	8.1
122.5°	6.7	5.4	4.0	5.4	6.7
125°	5.4	4.0	2.7	4.0	5.4
127.5°	4.0	4.0	1.3	2.7	4.0
130°	4.0	2.7	1.3	2.7	2.7
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

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