

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: P412283

Luminaire Tested: **14PD-25-PB1-L840**

Issue Date: 9/15/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P412283  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-56)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 14PD-25-PB1-L840  
Description: 2500 LUMEN 1X4 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 80 CRI, 4000 CCT LEDS  
Light Source: -  
Ballast/Driver: -

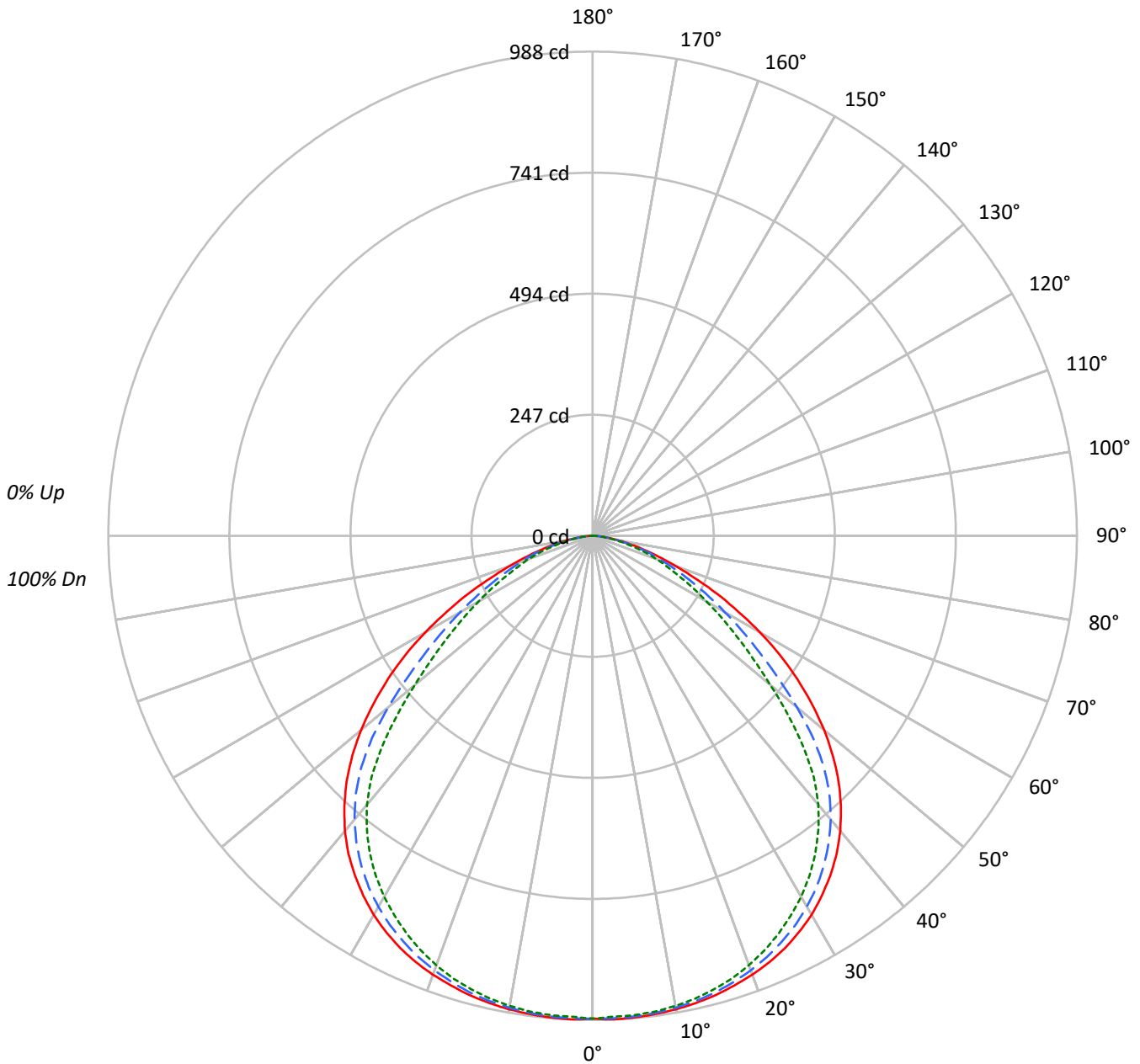
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2540.0 lumens  
Efficiency: N/A  
Efficacy: 111.9 lumens/watt  
Spacing Criteria (0/90/45): 1.34 / 1.28 / 1.38  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 22.7  
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				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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	110	106	102	99	107	104	100	97	99	96	94	95	93	91	92	90	88	86				86
2	101	93	87	82	98	92	86	81	88	83	79	85	81	77	82	79	76	74				74
3	93	83	75	69	90	81	74	69	78	72	67	76	71	66	73	69	65	63				63
4	85	74	66	59	83	73	65	59	70	63	58	68	62	57	66	61	57	55				55
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	50	48				48
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42				42
7	67	54	46	40	66	54	46	40	52	45	40	51	44	39	49	44	39	37				37
8	63	50	42	36	61	49	41	36	48	41	36	47	40	35	45	40	35	33				33
9	59	46	38	32	57	45	37	32	44	37	32	43	37	32	42	36	32	30				30
10	55	42	34	29	54	42	34	29	41	34	29	40	33	29	39	33	29	27				27

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2652	2652	2652
5°	2665	2659	2653
10°	2681	2672	2661
15°	2703	2689	2669
20°	2729	2702	2670
25°	2757	2713	2662
30°	2775	2716	2643
35°	2777	2701	2601
40°	2761	2655	2516
45°	2701	2539	2310
50°	2581	2274	1980
55°	2390	1950	1690
60°	2123	1674	1445
65°	1782	1428	1237
70°	1412	1214	1091
75°	1104	990	867
80°	823	738	666
85°	546	482	442



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	93.7	3.7
10°-20°	272.3	10.7
20°-30°	420.5	16.6
30°-40°	511.8	20.1
40°-50°	506.4	19.9
50°-60°	381.6	15.0
60°-70°	229.3	9.0
70°-80°	103.3	4.1
80°-90°	21.2	0.8
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	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°	786.5	31.0
0°-40°	1298.2	51.1
0°-60°	2186.2	86.1
0°-90°	2540.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2540.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	985	985	985	985	985	
5°	987	983	984	984	982	94
15°	970	966	965	961	958	274
25°	928	921	914	902	896	428
35°	845	836	822	802	792	529
45°	710	698	667	626	607	545
55°	510	474	416	375	360	454
65°	280	254	224	201	194	278
75°	106	101	95	86	83	116
85°	18	18	16	15	14	23
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	985.4	985.4	985.4	985.4	985.4
2.5°	987.9	983.7	985.8	985.4	982.0
5°	986.6	982.8	984.5	983.7	982.0
7.5°	984.5	980.7	982.0	980.7	979.0
10°	981.2	976.9	977.8	975.3	974.0
12.5°	976.5	971.5	972.3	968.9	967.2
15°	970.2	965.6	965.1	961.3	958.0
17.5°	962.2	957.6	955.0	950.8	947.0
20°	952.9	947.0	943.6	936.1	932.3
22.5°	942.0	935.6	930.2	919.6	915.8
25°	928.5	921.3	913.7	901.5	896.4
27.5°	912.0	904.4	895.6	882.1	874.5
30°	893.1	885.1	874.1	858.5	850.5
32.5°	870.7	861.9	850.1	831.5	823.1
35°	845.4	836.2	822.3	802.0	791.9
37.5°	818.1	807.5	791.1	766.6	756.5
40°	786.0	775.5	755.7	727.4	716.1
42.5°	749.8	739.2	715.2	681.5	667.6
45°	709.7	697.5	667.2	626.3	606.9
47.5°	665.1	649.5	609.9	559.7	540.3
50°	616.6	595.9	543.3	491.8	472.9
52.5°	563.9	537.8	477.1	431.2	413.0
55°	509.5	473.7	415.6	375.1	360.3
57.5°	453.1	410.1	361.6	326.2	312.3
60°	394.5	352.8	311.0	278.6	268.5
62.5°	334.6	300.5	265.9	236.0	230.5
65°	279.8	253.7	224.2	200.6	194.3
67.5°	224.6	209.9	187.1	171.1	163.9
70°	179.5	169.8	154.3	141.2	138.7
72.5°	140.3	134.0	128.1	116.7	112.1
75°	106.2	100.7	95.2	86.4	83.4
77.5°	76.7	74.6	70.0	64.1	62.8
80°	53.1	53.1	47.6	44.3	43.0
82.5°	32.9	35.8	29.9	27.8	26.6
85°	17.7	18.1	15.6	14.8	14.3
87.5°	6.7	7.6	7.2	5.9	5.9
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC







— 0°-180°    - - 45°-225°    - - - - 90°-270°







(END OF REPORT)