

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: P412274

Luminaire Tested: **14PD-20-PB1-L840**

Issue Date: 9/15/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P412274  
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-20-PB1-L840  
Description: 2000 LUMEN 1X4 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 80 CRI, 4000 CCT LEDS  
Light Source: -  
Ballast/Driver: -

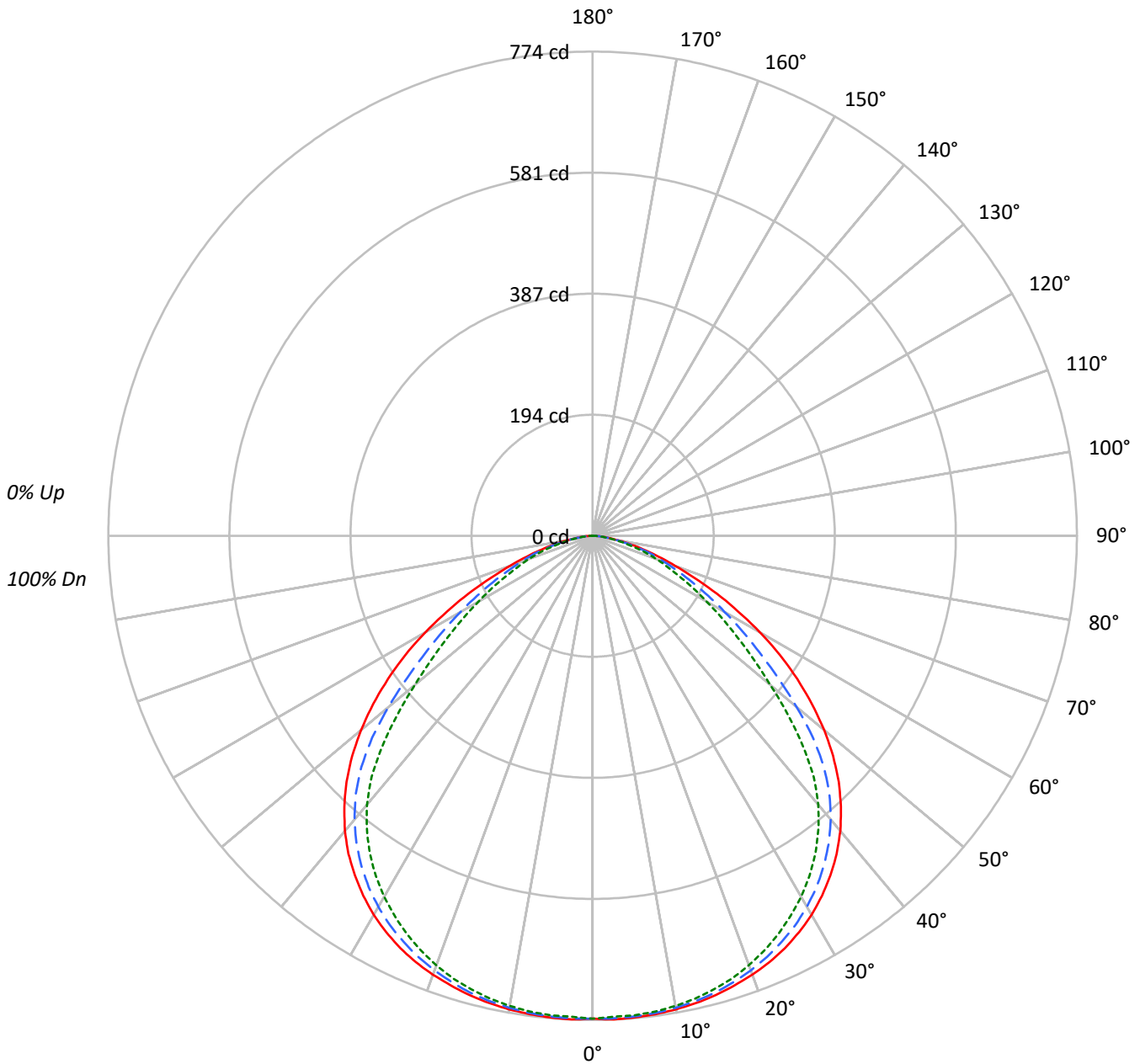
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1990.0 lumens  
Efficiency: N/A  
Efficacy: 114.4 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): 17.4  
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°	2077	2077	2077
5°	2088	2083	2078
10°	2100	2093	2085
15°	2118	2107	2091
20°	2138	2117	2092
25°	2160	2126	2085
30°	2174	2128	2070
35°	2176	2116	2038
40°	2163	2080	1971
45°	2116	1989	1810
50°	2022	1782	1551
55°	1873	1528	1324
60°	1664	1312	1132
65°	1396	1119	969
70°	1107	951	854
75°	865	776	680
80°	645	578	522
85°	429	377	346



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	73.4	3.7
10°-20°	213.3	10.7
20°-30°	329.4	16.6
30°-40°	400.9	20.1
40°-50°	396.8	19.9
50°-60°	298.9	15.0
60°-70°	179.6	9.0
70°-80°	81.0	4.1
80°-90°	16.6	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°	616.2	31.0
0°-40°	1017.1	51.1
0°-60°	1712.8	86.1
0°-90°	1990.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1990.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	772	772	772	772	772	
5°	773	770	771	771	769	74
15°	760	756	756	753	750	215
25°	727	722	716	706	702	335
35°	662	655	644	628	620	414
45°	556	546	523	491	476	427
55°	399	371	326	294	282	356
65°	219	199	176	157	152	218
75°	83	79	75	68	65	91
85°	14	14	12	12	11	18
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	772.0	772.0	772.0	772.0	772.0
2.5°	774.0	770.7	772.3	772.0	769.4
5°	773.0	770.0	771.3	770.7	769.4
7.5°	771.3	768.4	769.4	768.4	767.0
10°	768.7	765.4	766.1	764.1	763.1
12.5°	765.1	761.1	761.8	759.1	757.8
15°	760.1	756.5	756.2	753.2	750.5
17.5°	753.8	750.2	748.2	744.9	742.0
20°	746.6	742.0	739.3	733.4	730.4
22.5°	738.0	733.0	728.7	720.5	717.5
25°	727.4	721.8	715.9	706.3	702.3
27.5°	714.5	708.6	701.7	691.1	685.2
30°	699.7	693.4	684.8	672.6	666.3
32.5°	682.2	675.3	666.0	651.5	644.9
35°	662.4	655.1	644.2	628.4	620.4
37.5°	640.9	632.7	619.8	600.6	592.7
40°	615.8	607.6	592.0	569.9	561.0
42.5°	587.4	579.2	560.3	533.9	523.0
45°	556.1	546.5	522.7	490.7	475.5
47.5°	521.1	508.8	477.8	438.5	423.3
50°	483.1	466.9	425.6	385.3	370.5
52.5°	441.8	421.3	373.8	337.8	323.6
55°	399.2	371.1	325.6	293.9	282.3
57.5°	355.0	321.3	283.3	255.6	244.7
60°	309.1	276.4	243.7	218.3	210.3
62.5°	262.2	235.4	208.4	184.9	180.6
65°	219.3	198.8	175.7	157.2	152.2
67.5°	176.0	164.4	146.6	134.1	128.4
70°	140.7	133.1	120.9	110.6	108.6
72.5°	110.0	105.0	100.4	91.5	87.8
75°	83.2	78.9	74.6	67.7	65.4
77.5°	60.1	58.4	54.8	50.2	49.2
80°	41.6	41.6	37.3	34.7	33.7
82.5°	25.8	28.1	23.4	21.8	20.8
85°	13.9	14.2	12.2	11.6	11.2
87.5°	5.3	5.9	5.6	4.6	4.6
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)