

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: P412333

Luminaire Tested: **14PD-50-PB1-L940**

Issue Date: 9/15/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P412333  
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-50-PB1-L940  
Description: 5000 LUMEN 1X4 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 90 CRI, 4000 CCT LEDS  
Light Source: -  
Ballast/Driver: -

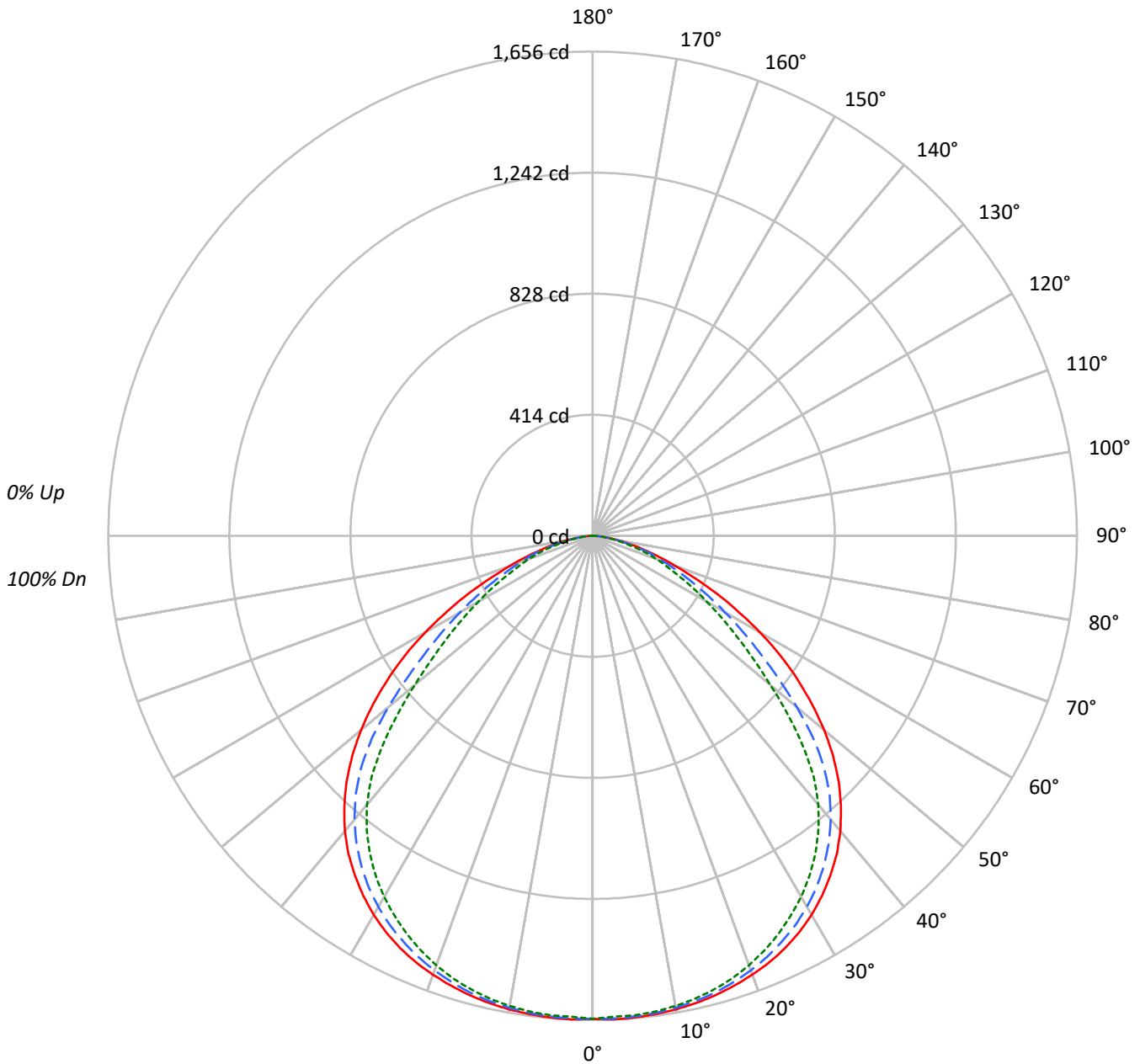
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4258.0 lumens  
Efficiency: N/A  
Efficacy: 87.6 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): 48.6  
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									
RC	80									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																			
1	110	106	102	99	107	104	100	97	99	96	94	95	93	91	92	90	88	86																			
2	101	93	87	82	98	92	86	81	88	83	79	85	81	77	82	79	76	74																			
3	93	83	75	69	90	81	74	69	78	72	67	76	71	66	73	69	65	63																			
4	85	74	66	59	83	73	65	59	70	63	58	68	62	57	66	61	57	55																			
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	50	48																			
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42																			
7	67	54	46	40	66	54	46	40	52	45	40	51	44	39	49	44	39	37																			
8	63	50	42	36	61	49	41	36	48	41	36	47	40	35	45	40	35	33																			
9	59	46	38	32	57	45	37	32	44	37	32	43	37	32	42	36	32	30																			
10	55	42	34	29	54	42	34	29	41	34	29	40	33	29	39	33	29	27																			

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

	0°	45°	90°
0°	4445	4445	4445
5°	4468	4458	4447
10°	4494	4479	4462
15°	4531	4507	4474
20°	4574	4530	4475
25°	4622	4548	4462
30°	4652	4553	4430
35°	4656	4528	4361
40°	4629	4450	4217
45°	4528	4256	3872
50°	4327	3813	3319
55°	4008	3268	2834
60°	3559	2806	2422
65°	2987	2394	2074
70°	2368	2035	1828
75°	1851	1660	1455
80°	1379	1237	1117
85°	917	806	741



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	157.1	3.7
10°-20°	456.5	10.7
20°-30°	704.9	16.6
30°-40°	857.9	20.1
40°-50°	849.0	19.9
50°-60°	639.6	15.0
60°-70°	384.4	9.0
70°-80°	173.2	4.1
80°-90°	35.5	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°	1318.5	31.0
0°-40°	2176.4	51.1
0°-60°	3664.9	86.1
0°-90°	4258.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4258.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1652	1652	1652	1652	1652	
5°	1654	1648	1650	1649	1646	158
15°	1626	1619	1618	1612	1606	460
25°	1556	1544	1532	1511	1503	717
35°	1417	1402	1378	1344	1328	886
45°	1190	1169	1118	1050	1017	914
55°	854	794	697	629	604	761
65°	469	425	376	336	326	466
75°	178	169	160	145	140	194
85°	30	30	26	25	24	38
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1651.9	1651.9	1651.9	1651.9	1651.9
2.5°	1656.1	1649.0	1652.6	1651.9	1646.2
5°	1654.0	1647.6	1650.4	1649.0	1646.2
7.5°	1650.4	1644.1	1646.2	1644.1	1641.3
10°	1644.8	1637.7	1639.1	1634.9	1632.8
12.5°	1637.0	1628.5	1629.9	1624.3	1621.5
15°	1626.4	1618.6	1617.9	1611.6	1605.9
17.5°	1613.0	1605.2	1601.0	1593.9	1587.6
20°	1597.4	1587.6	1581.9	1569.2	1562.8
22.5°	1579.1	1568.5	1559.3	1541.6	1535.3
25°	1556.5	1544.5	1531.7	1511.3	1502.8
27.5°	1528.9	1516.2	1501.4	1478.8	1466.0
30°	1497.1	1483.7	1465.3	1439.2	1425.8
32.5°	1459.7	1444.8	1425.1	1394.0	1379.8
35°	1417.3	1401.7	1378.4	1344.5	1327.6
37.5°	1371.4	1353.7	1326.1	1285.2	1268.2
40°	1317.7	1300.0	1266.8	1219.5	1200.4
42.5°	1256.9	1239.2	1199.0	1142.4	1119.1
45°	1189.8	1169.3	1118.4	1049.9	1017.4
47.5°	1114.9	1088.8	1022.3	938.3	905.8
50°	1033.6	999.0	910.7	824.5	792.7
52.5°	945.3	901.5	799.8	722.8	692.4
55°	854.2	794.1	696.6	628.8	604.1
57.5°	759.5	687.4	606.2	546.8	523.5
60°	661.3	591.4	521.4	467.0	450.1
62.5°	561.0	503.8	445.8	395.7	386.5
65°	469.1	425.3	375.9	336.3	325.7
67.5°	376.6	351.8	313.7	286.8	274.8
70°	301.0	284.7	258.6	236.7	232.4
72.5°	235.3	224.7	214.8	195.7	187.9
75°	178.0	168.9	159.7	144.8	139.9
77.5°	128.6	125.1	117.3	107.4	105.3
80°	89.0	89.0	79.8	74.2	72.1
82.5°	55.1	60.1	50.2	46.6	44.5
85°	29.7	30.4	26.1	24.7	24.0
87.5°	11.3	12.7	12.0	9.9	9.9
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)