

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: P412331

Luminaire Tested: **14PD-50-PB1-L930**

Issue Date: 9/15/2020

**Test Information**

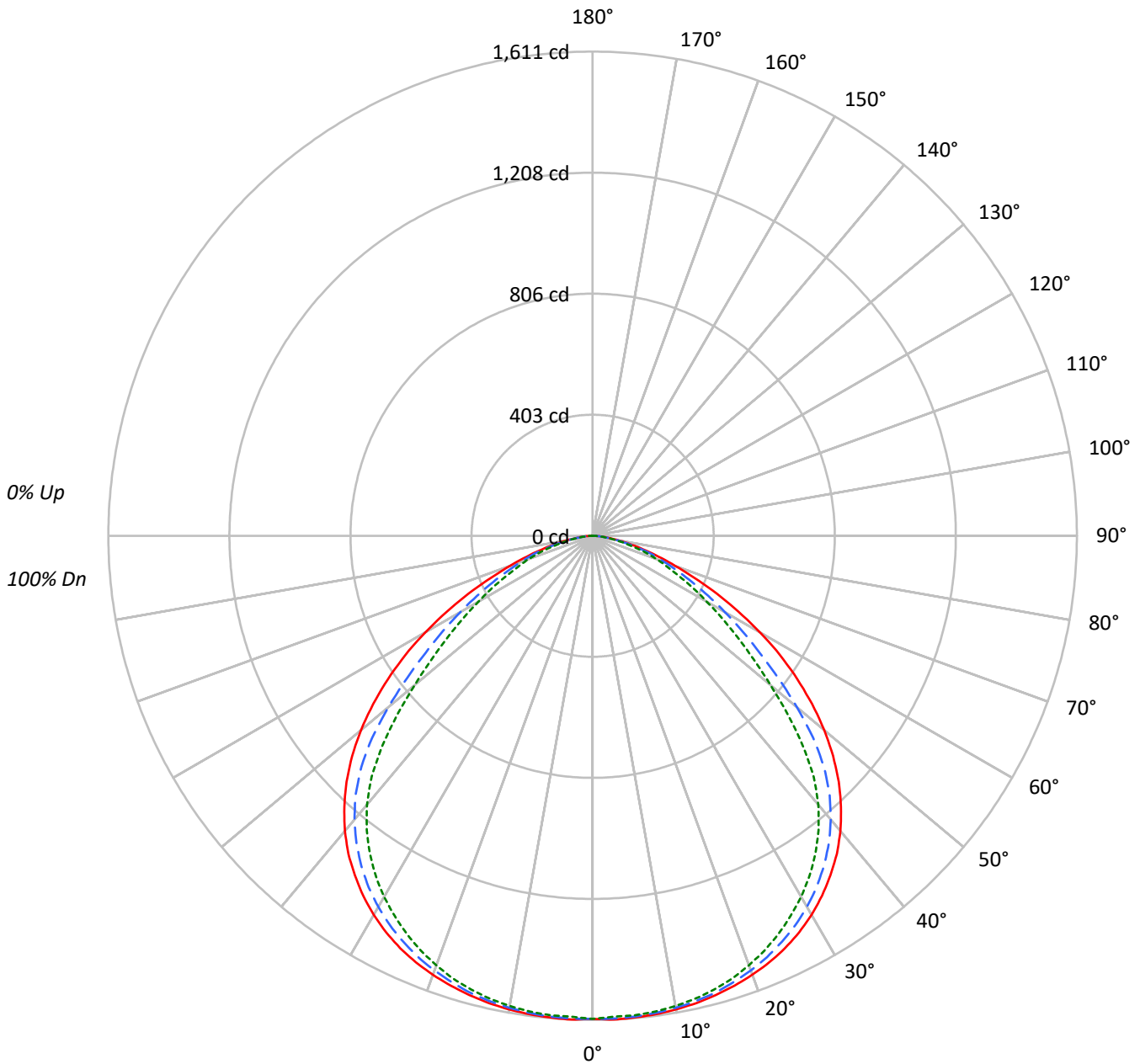
Test Method: LM-79-08  
Report Number: P412331  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-56)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 14PD-50-PB1-L930  
Description: 5000 LUMEN 1X4 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 90 CRI, 3000 CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4143.0 lumens  
Efficiency: N/A  
Efficacy: 85.2 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°	4325	4325	4325
5°	4347	4338	4327
10°	4373	4358	4341
15°	4409	4386	4353
20°	4451	4408	4355
25°	4497	4425	4342
30°	4526	4430	4311
35°	4530	4406	4243
40°	4504	4330	4103
45°	4406	4141	3767
50°	4210	3710	3229
55°	3899	3180	2758
60°	3463	2730	2357
65°	2907	2329	2018
70°	2305	1980	1780
75°	1801	1616	1415
80°	1342	1204	1086
85°	892	784	722



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	152.8	3.7
10°-20°	444.1	10.7
20°-30°	685.9	16.6
30°-40°	834.7	20.1
40°-50°	826.0	19.9
50°-60°	622.4	15.0
60°-70°	374.0	9.0
70°-80°	168.6	4.1
80°-90°	34.5	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°	1282.8	31.0
0°-40°	2117.6	51.1
0°-60°	3565.9	86.1
0°-90°	4143.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4143.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1607	1607	1607	1607	1607	
5°	1609	1603	1606	1604	1602	153
15°	1582	1575	1574	1568	1563	447
25°	1514	1503	1490	1470	1462	698
35°	1379	1364	1341	1308	1292	862
45°	1158	1138	1088	1022	990	890
55°	831	773	678	612	588	740
65°	456	414	366	327	317	454
75°	173	164	155	141	136	189
85°	29	30	25	24	23	37
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1607.2	1607.2	1607.2	1607.2	1607.2
2.5°	1611.4	1604.5	1607.9	1607.2	1601.7
5°	1609.3	1603.1	1605.9	1604.5	1601.7
7.5°	1605.9	1599.7	1601.7	1599.7	1596.9
10°	1600.4	1593.5	1594.9	1590.7	1588.7
12.5°	1592.8	1584.6	1585.9	1580.4	1577.7
15°	1582.5	1574.9	1574.2	1568.1	1562.6
17.5°	1569.4	1561.9	1557.7	1550.9	1544.7
20°	1554.3	1544.7	1539.2	1526.8	1520.6
22.5°	1536.4	1526.1	1517.2	1500.0	1493.8
25°	1514.4	1502.7	1490.4	1470.4	1462.2
27.5°	1487.6	1475.3	1460.8	1438.8	1426.4
30°	1456.7	1443.6	1425.8	1400.3	1387.3
32.5°	1420.3	1405.8	1386.6	1356.3	1342.6
35°	1379.0	1363.9	1341.2	1308.2	1291.7
37.5°	1334.3	1317.1	1290.3	1250.5	1234.0
40°	1282.1	1264.9	1232.6	1186.5	1168.0
42.5°	1223.0	1205.8	1166.6	1111.6	1088.9
45°	1157.7	1137.7	1088.2	1021.5	989.9
47.5°	1084.8	1059.3	994.7	912.9	881.3
50°	1005.7	972.0	886.1	802.2	771.3
52.5°	919.8	877.2	778.2	703.3	673.7
55°	831.1	772.7	677.8	611.8	587.8
57.5°	739.0	668.9	589.8	532.1	509.4
60°	643.4	575.4	507.3	454.4	437.9
62.5°	545.8	490.1	433.8	385.0	376.0
65°	456.5	413.8	365.7	327.2	316.9
67.5°	366.4	342.3	305.2	279.1	267.4
70°	292.9	277.0	251.6	230.3	226.2
72.5°	228.9	218.6	209.0	190.4	182.9
75°	173.2	164.3	155.4	140.9	136.1
77.5°	125.1	121.7	114.1	104.5	102.4
80°	86.6	86.6	77.7	72.2	70.1
82.5°	53.6	58.4	48.8	45.4	43.3
85°	28.9	29.6	25.4	24.1	23.4
87.5°	11.0	12.4	11.7	9.6	9.6
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)