

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: P412310

Luminaire Tested: **14PD-40-PB1-L840**

Issue Date: 9/15/2020

**Test Information**

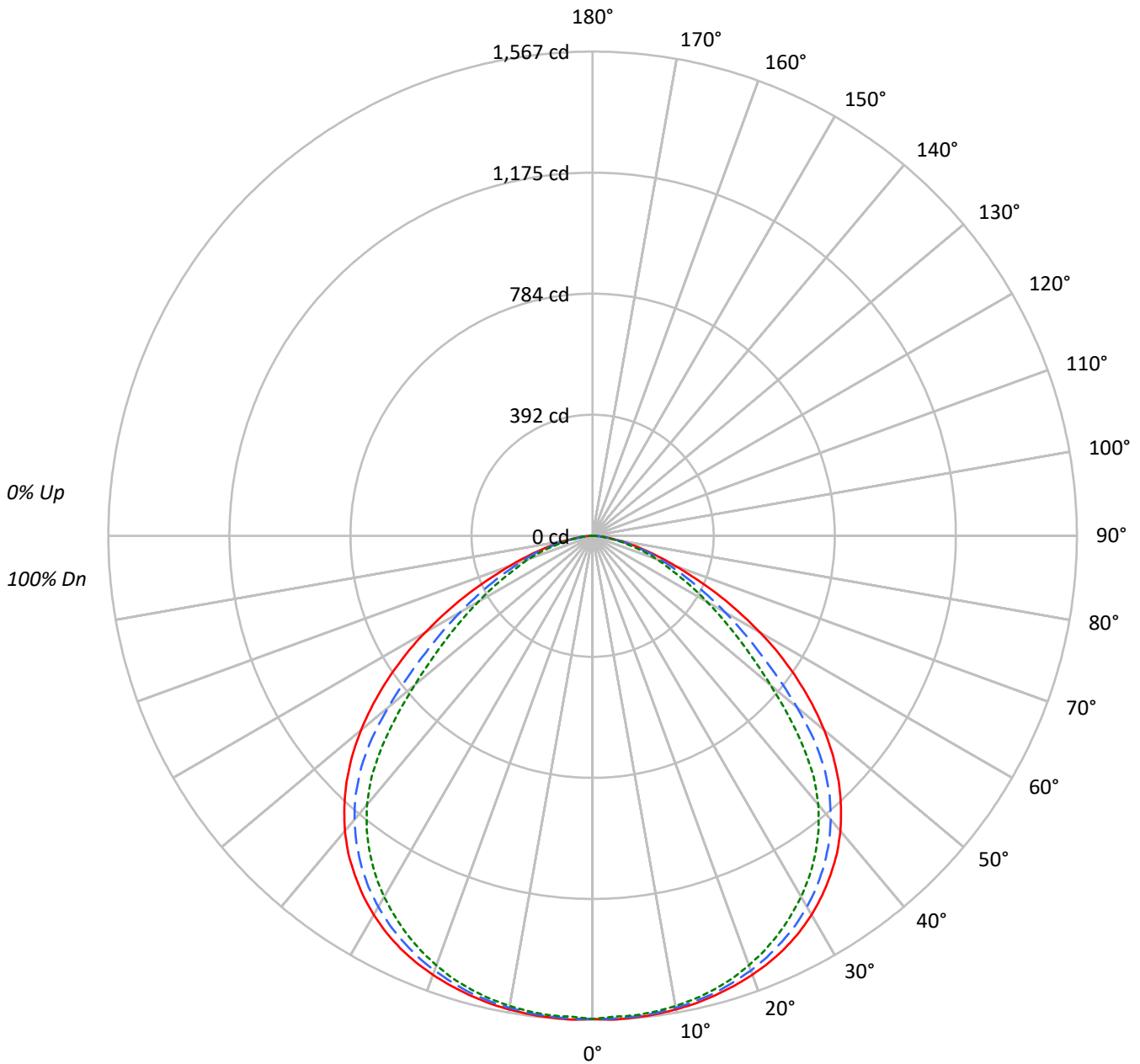
Test Method: LM-79-08  
Report Number: P412310  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-56)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 14PD-40-PB1-L840  
Description: 4000 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: 4030.0 lumens  
Efficiency: N/A  
Efficacy: 106.6 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): 37.8  
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°	4207	4207	4207
5°	4229	4220	4209
10°	4254	4239	4223
15°	4288	4266	4234
20°	4330	4288	4236
25°	4374	4304	4223
30°	4403	4309	4193
35°	4407	4286	4128
40°	4381	4212	3991
45°	4286	4028	3664
50°	4096	3608	3141
55°	3793	3093	2682
60°	3369	2656	2293
65°	2827	2265	1963
70°	2242	1925	1731
75°	1752	1571	1377
80°	1306	1172	1057
85°	868	763	701



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	148.7	3.7
10°-20°	432.0	10.7
20°-30°	667.2	16.6
30°-40°	812.0	20.1
40°-50°	803.5	19.9
50°-60°	605.4	15.0
60°-70°	363.8	9.0
70°-80°	164.0	4.1
80°-90°	33.6	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°	1247.9	31.0
0°-40°	2059.8	51.1
0°-60°	3468.7	86.1
0°-90°	4030.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4030.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1563	1563	1563	1563	1563	
5°	1565	1559	1562	1561	1558	149
15°	1539	1532	1531	1525	1520	435
25°	1473	1462	1450	1430	1422	679
35°	1341	1327	1305	1272	1256	839
45°	1126	1107	1058	994	963	865
55°	808	752	659	595	572	720
65°	444	403	356	318	308	441
75°	168	160	151	137	132	184
85°	28	29	25	23	23	36
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1563.4	1563.4	1563.4	1563.4	1563.4
2.5°	1567.4	1560.7	1564.1	1563.4	1558.1
5°	1565.4	1559.4	1562.1	1560.7	1558.1
7.5°	1562.1	1556.0	1558.1	1556.0	1553.4
10°	1556.7	1550.0	1551.4	1547.4	1545.3
12.5°	1549.4	1541.3	1542.7	1537.3	1534.6
15°	1539.3	1532.0	1531.3	1525.3	1519.9
17.5°	1526.6	1519.3	1515.3	1508.6	1502.6
20°	1511.9	1502.6	1497.2	1485.2	1479.1
22.5°	1494.5	1484.5	1475.8	1459.1	1453.1
25°	1473.1	1461.8	1449.7	1430.3	1422.3
27.5°	1447.0	1435.0	1421.0	1399.6	1387.5
30°	1417.0	1404.3	1386.9	1362.1	1349.4
32.5°	1381.5	1367.5	1348.8	1319.3	1306.0
35°	1341.4	1326.7	1304.6	1272.5	1256.5
37.5°	1297.9	1281.2	1255.1	1216.4	1200.3
40°	1247.1	1230.4	1199.0	1154.2	1136.1
42.5°	1189.6	1172.9	1134.8	1081.3	1059.2
45°	1126.1	1106.7	1058.5	993.7	962.9
47.5°	1055.2	1030.5	967.6	888.0	857.3
50°	978.3	945.5	861.9	780.4	750.3
52.5°	894.7	853.3	757.0	684.1	655.3
55°	808.4	751.6	659.3	595.1	571.7
57.5°	718.8	650.6	573.7	517.6	495.5
60°	625.9	559.7	493.5	442.0	426.0
62.5°	530.9	476.8	421.9	374.5	365.8
65°	444.0	402.6	355.7	318.3	308.3
67.5°	356.4	333.0	296.9	271.5	260.1
70°	284.9	269.5	244.7	224.0	220.0
72.5°	222.7	212.6	203.3	185.2	177.9
75°	168.5	159.8	151.1	137.1	132.4
77.5°	121.7	118.4	111.0	101.6	99.6
80°	84.3	84.3	75.6	70.2	68.2
82.5°	52.2	56.8	47.5	44.1	42.1
85°	28.1	28.8	24.7	23.4	22.7
87.5°	10.7	12.0	11.4	9.4	9.4
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)