

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: P412995

Luminaire Tested: **14PD-40-PC3-L850**

Issue Date: 9/15/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P412995  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-57)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 14PD-40-PC3-L850  
Description: 4000 LUMEN 1X4 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 80 CRI, 5000 CCT LEDS  
Light Source: -  
Ballast/Driver: -

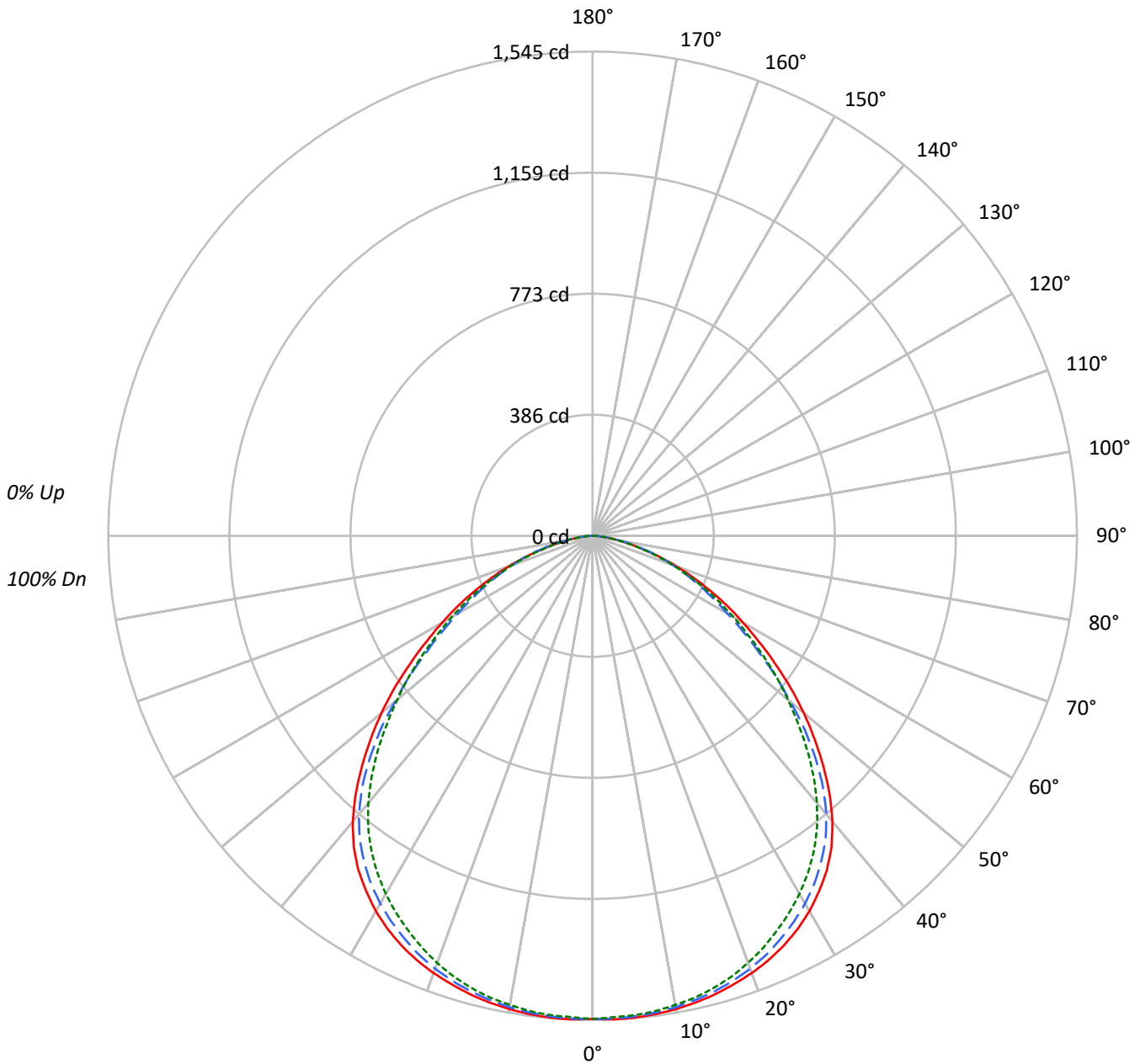
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3984.0 lumens  
Efficiency: N/A  
Efficacy: 105.4 lumens/watt  
Spacing Criteria (0/90/45): 1.32 / 1.27 / 1.37  
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

TEST NUMBER: P412995

CATALOG NUMBER: 14PD-40-PC3-L850

### 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	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86																			
2	101	93	87	81	98	91	85	80	88	83	79	84	80	77	81	78	75	73																			
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	62																			
4	85	73	65	59	83	72	64	58	70	63	58	67	62	57	65	60	56	54																			
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	53	49	47																			
6	72	60	51	45	70	59	50	45	57	50	44	55	49	44	54	48	43	41																			
7	67	54	46	40	65	53	45	40	52	45	39	50	44	39	49	43	39	37																			
8	63	49	41	36	61	49	41	35	47	40	35	46	40	35	45	39	35	33																			
9	58	45	37	32	57	45	37	32	44	37	32	43	36	32	42	36	31	30																			
10	55	42	34	29	54	41	34	29	40	34	29	40	33	29	39	33	29	27																			

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

	0°	45°	90°
0°	4148	4148	4148
5°	4170	4159	4148
10°	4190	4173	4153
15°	4219	4192	4162
20°	4252	4209	4153
25°	4283	4214	4129
30°	4298	4211	4100
35°	4279	4175	4041
40°	4182	4073	3910
45°	3963	3828	3688
50°	3679	3444	3404
55°	3331	3036	3103
60°	2979	2674	2792
65°	2628	2397	2480
70°	2237	2124	2140
75°	1720	1812	1670
80°	1260	1323	1249
85°	843	929	908



TEST NUMBER: P412995

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	146.5	3.7
10°-20°	424.7	10.7
20°-30°	653.2	16.4
30°-40°	790.3	19.8
40°-50°	771.6	19.4
50°-60°	596.2	15.0
60°-70°	382.9	9.6
70°-80°	180.7	4.5
80°-90°	37.9	1.0
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°	1224.3	30.7
0°-40°	2014.6	50.6
0°-60°	3382.5	84.9
0°-90°	3984.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3984.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1542	1542	1542	1542	1542	
5°	1544	1537	1540	1538	1536	147
15°	1514	1507	1505	1499	1494	428
25°	1442	1431	1419	1401	1391	665
35°	1302	1289	1271	1242	1230	812
45°	1041	1028	1006	980	969	801
55°	710	676	647	648	662	636
65°	413	388	376	372	390	411
75°	165	168	174	160	161	181
85°	27	31	30	29	29	35
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1541.6	1541.6	1541.6	1541.6	1541.6
2.5°	1545.0	1538.9	1542.3	1542.3	1537.5
5°	1543.7	1536.8	1539.6	1538.2	1535.5
7.5°	1539.6	1532.7	1534.8	1533.4	1530.0
10°	1533.4	1525.9	1527.3	1524.5	1519.8
12.5°	1525.2	1518.4	1517.0	1512.9	1509.5
15°	1514.3	1506.8	1504.7	1499.3	1493.8
17.5°	1499.9	1492.4	1489.0	1480.8	1474.7
20°	1484.9	1476.0	1469.9	1457.6	1450.1
22.5°	1465.8	1455.5	1447.3	1430.2	1422.7
25°	1442.5	1430.9	1419.3	1400.9	1390.6
27.5°	1415.2	1402.9	1389.2	1368.7	1357.1
30°	1383.1	1370.8	1355.1	1331.8	1319.5
32.5°	1344.8	1332.5	1316.1	1289.5	1277.2
35°	1302.5	1288.8	1271.0	1242.3	1230.0
37.5°	1251.9	1236.9	1220.5	1189.0	1176.0
40°	1190.4	1177.4	1159.6	1128.2	1113.2
42.5°	1119.3	1107.7	1087.9	1057.8	1043.5
45°	1041.4	1028.4	1005.9	979.9	969.0
47.5°	960.1	941.0	919.1	896.6	890.4
50°	878.8	854.2	822.7	811.1	813.2
52.5°	795.4	764.0	736.6	727.8	738.0
55°	710.0	675.8	647.1	647.8	661.5
57.5°	628.7	593.1	569.2	569.2	587.0
60°	553.5	520.7	496.8	496.1	518.7
62.5°	483.8	450.3	432.6	432.6	453.1
65°	412.7	388.1	376.5	372.4	389.5
67.5°	347.1	330.1	321.9	317.1	328.0
70°	284.3	273.3	269.9	264.5	272.0
72.5°	222.1	219.4	226.2	213.2	216.6
75°	165.4	168.1	174.3	159.9	160.6
77.5°	118.9	124.4	126.4	119.6	119.6
80°	81.3	88.2	85.4	82.0	80.6
82.5°	51.9	55.4	55.4	53.3	51.9
85°	27.3	31.4	30.1	29.4	29.4
87.5°	10.3	14.4	14.4	13.7	13.0
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)