

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: P412994

Luminaire Tested: **14PD-40-PC3-L840**

Issue Date: 9/15/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P412994  
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-L840  
Description: 4000 LUMEN 1X4 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 80 CRI, 4000 CCT LEDS  
Light Source: -  
Ballast/Driver: -

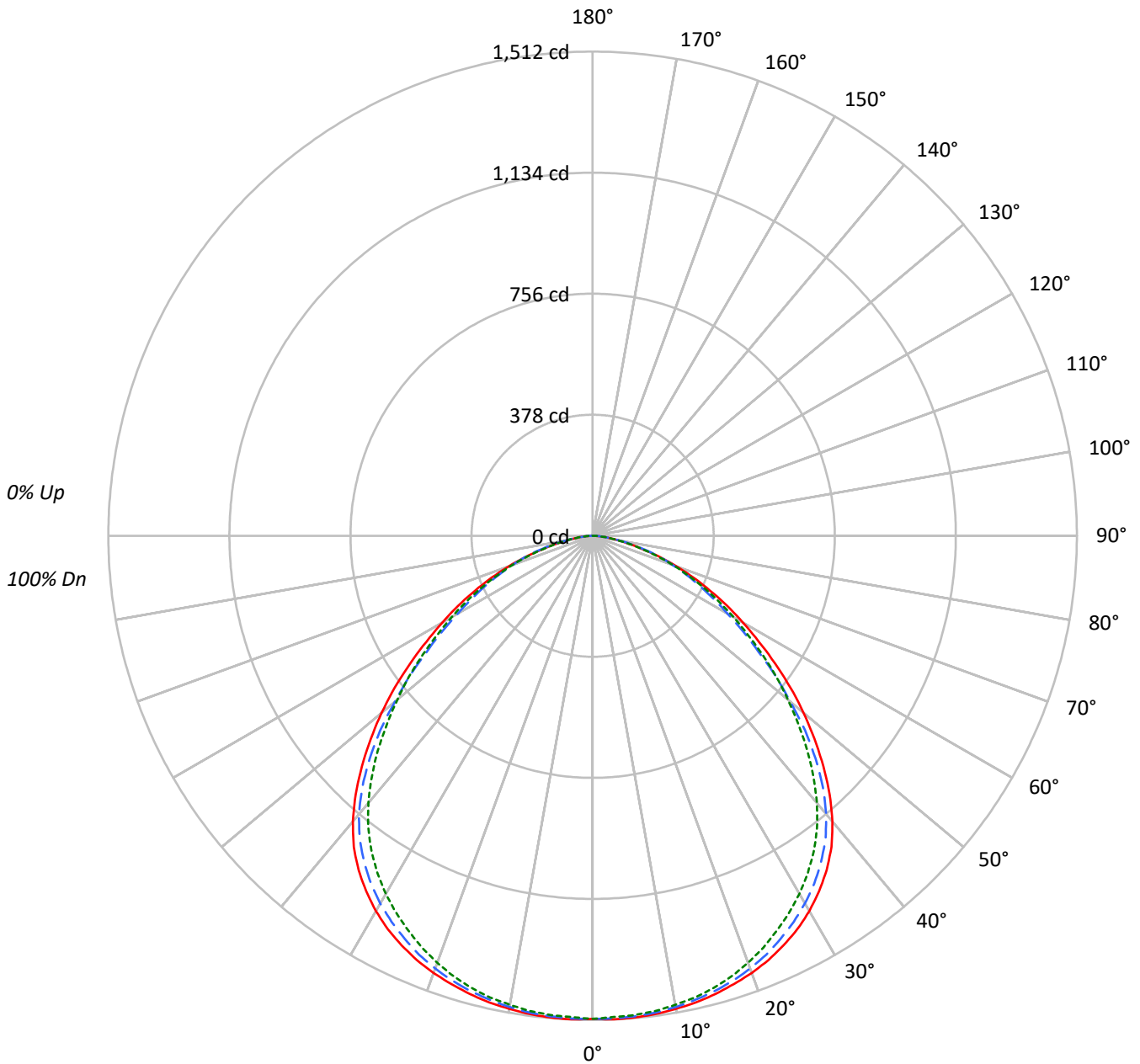
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3898.0 lumens  
Efficiency: N/A  
Efficacy: 103.1 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

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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	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°	4059	4059	4059
5°	4080	4069	4058
10°	4100	4083	4063
15°	4128	4101	4072
20°	4161	4118	4063
25°	4191	4123	4040
30°	4205	4120	4012
35°	4186	4085	3954
40°	4091	3986	3826
45°	3878	3745	3608
50°	3599	3370	3331
55°	3259	2971	3036
60°	2915	2616	2731
65°	2571	2346	2427
70°	2188	2078	2094
75°	1682	1773	1633
80°	1234	1296	1223
85°	824	908	886



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	143.3	3.7
10°-20°	415.5	10.7
20°-30°	639.1	16.4
30°-40°	773.3	19.8
40°-50°	754.9	19.4
50°-60°	583.4	15.0
60°-70°	374.6	9.6
70°-80°	176.8	4.5
80°-90°	37.1	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°	1197.9	30.7
0°-40°	1971.2	50.6
0°-60°	3309.5	84.9
0°-90°	3898.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3898.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1508	1508	1508	1508	1508	
5°	1510	1504	1506	1505	1502	144
15°	1482	1474	1472	1467	1462	419
25°	1411	1400	1389	1371	1361	651
35°	1274	1261	1244	1216	1204	795
45°	1019	1006	984	959	948	784
55°	695	661	633	634	647	623
65°	404	380	368	364	381	402
75°	162	164	170	156	157	178
85°	27	31	29	29	29	35
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1508.4	1508.4	1508.4	1508.4	1508.4
2.5°	1511.7	1505.7	1509.0	1509.0	1504.3
5°	1510.4	1503.7	1506.3	1505.0	1502.3
7.5°	1506.3	1499.7	1501.7	1500.3	1497.0
10°	1500.3	1493.0	1494.3	1491.6	1487.0
12.5°	1492.3	1485.6	1484.3	1480.3	1476.9
15°	1481.6	1474.3	1472.2	1466.9	1461.5
17.5°	1467.6	1460.2	1456.9	1448.8	1442.8
20°	1452.9	1444.2	1438.1	1426.1	1418.8
22.5°	1434.1	1424.1	1416.1	1399.4	1392.0
25°	1411.4	1400.0	1388.7	1370.6	1360.6
27.5°	1384.7	1372.6	1359.3	1339.2	1327.8
30°	1353.2	1341.2	1325.8	1303.1	1291.1
32.5°	1315.8	1303.8	1287.7	1261.6	1249.6
35°	1274.3	1261.0	1243.6	1215.5	1203.5
37.5°	1224.9	1210.2	1194.1	1163.4	1150.7
40°	1164.7	1152.0	1134.6	1103.9	1089.1
42.5°	1095.2	1083.8	1064.4	1035.0	1020.9
45°	1018.9	1006.2	984.2	958.8	948.1
47.5°	939.4	920.7	899.3	877.2	871.2
50°	859.8	835.7	805.0	793.6	795.6
52.5°	778.2	747.5	720.7	712.1	722.1
55°	694.7	661.2	633.2	633.8	647.2
57.5°	615.1	580.3	556.9	556.9	574.3
60°	541.6	509.5	486.1	485.4	507.5
62.5°	473.4	440.6	423.2	423.2	443.3
65°	403.8	379.8	368.4	364.4	381.1
67.5°	339.6	322.9	314.9	310.2	320.9
70°	278.1	267.4	264.1	258.7	266.1
72.5°	217.3	214.6	221.3	208.6	211.9
75°	161.8	164.5	170.5	156.5	157.1
77.5°	116.3	121.7	123.7	117.0	117.0
80°	79.6	86.2	83.6	80.2	78.9
82.5°	50.8	54.2	54.2	52.2	50.8
85°	26.7	30.8	29.4	28.7	28.7
87.5°	10.0	14.0	14.0	13.4	12.7
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)