

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: P412661

Luminaire Tested: **14PD-45-PP3-L840**

Issue Date: 9/15/2020



**Test Information**

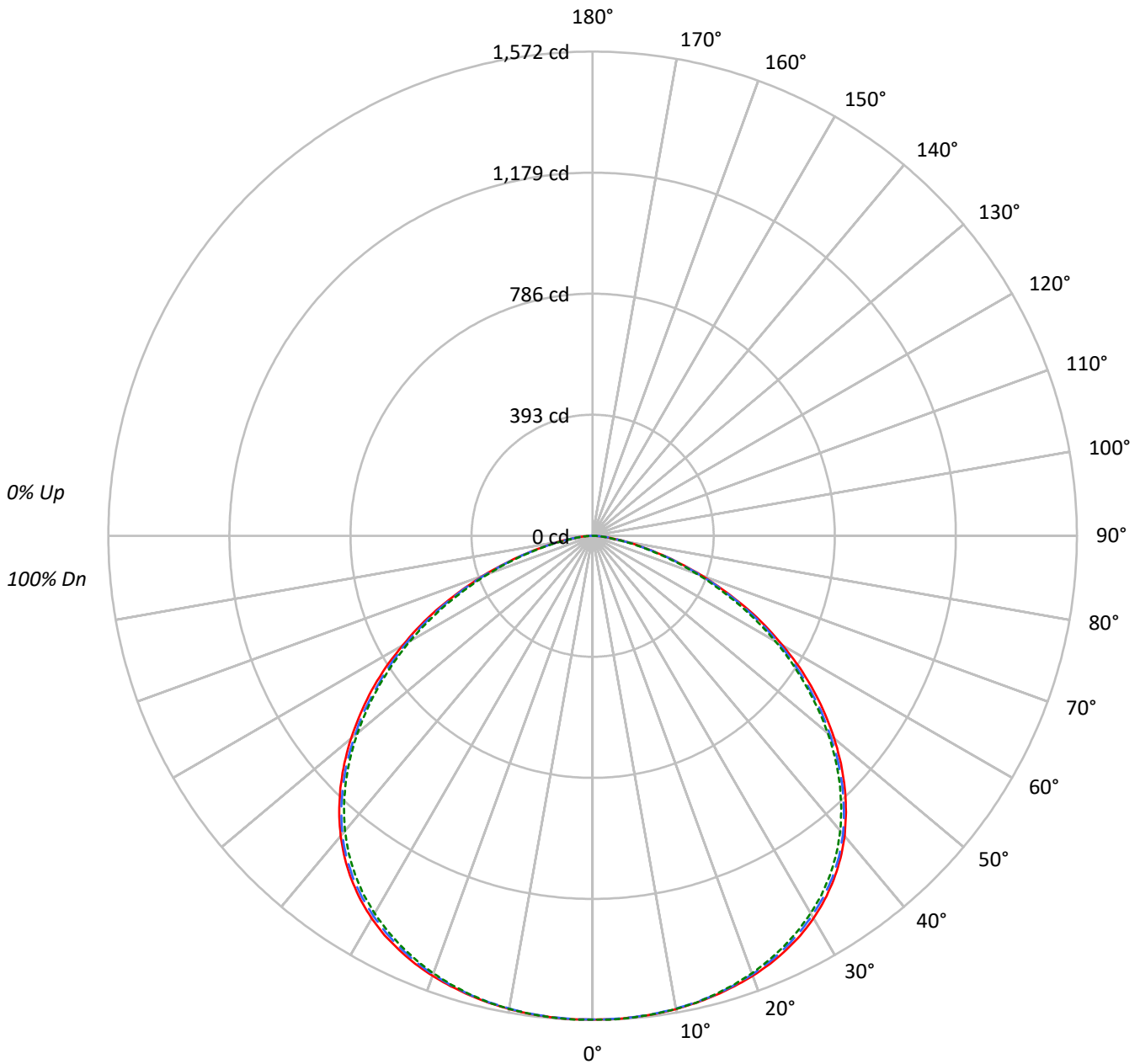
Test Method: LM-79-08  
Report Number: P412661  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-47)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 14PD-45-PP3-L840  
Description: 4500 LUMEN 1X4 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 80 CRI, 4000 CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4570.0 lumens  
Efficiency: N/A  
Efficacy: 106.5 lumens/watt  
Spacing Criteria (0/90/45): 1.35 / 1.33 / 1.43  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 42.9  
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: P412661  
CATALOG NUMBER: 14PD-45-PP3-L840

### Luminous Intensity Polar Plot





TEST NUMBER: P412661

CATALOG NUMBER: 14PD-45-PP3-L840

**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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85																			
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71																			
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	63	60																			
4	83	72	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	52																			
5	77	64	55	49	75	63	54	48	61	53	48	59	52	47	57	51	47	45																			
6	71	58	49	42	69	57	48	42	55	47	42	53	46	41	52	46	41	39																			
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34																			
8	61	47	39	33	59	47	39	33	45	38	33	44	38	33	43	37	32	31																			
9	57	44	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27																			
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25																			

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

	0°	45°	90°
0°	4226	4226	4226
5°	4237	4236	4239
10°	4264	4259	4263
15°	4302	4295	4293
20°	4354	4339	4329
25°	4408	4385	4365
30°	4457	4426	4398
35°	4481	4454	4414
40°	4470	4442	4392
45°	4406	4362	4314
50°	4285	4216	4172
55°	4107	4009	3957
60°	3827	3760	3684
65°	3469	3400	3300
70°	2961	2907	2814
75°	2312	2288	2179
80°	1706	1635	1543
85°	1028	1028	960



TEST NUMBER: P412661

CATALOG NUMBER: 14PD-45-PP3-L840

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	149.4	3.3
10°-20°	436.0	9.5
20°-30°	681.5	14.9
30°-40°	847.0	18.5
40°-50°	882.5	19.3
50°-60°	765.8	16.8
60°-70°	526.6	11.5
70°-80°	237.6	5.2
80°-90°	43.5	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°	1267.0	27.7
0°-40°	2114.0	46.3
0°-60°	3762.3	82.3
0°-90°	4570.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4570.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1571	1571	1571	1571	1571	
5°	1569	1569	1568	1567	1569	149
15°	1544	1544	1542	1540	1541	437
25°	1485	1484	1477	1471	1470	685
35°	1364	1364	1356	1348	1344	852
45°	1158	1158	1146	1138	1134	891
55°	876	870	854	844	844	780
65°	545	543	534	521	518	538
75°	222	223	220	214	210	242
85°	33	33	33	33	31	45
90°	0	0	0	0	0	



TEST NUMBER: P412661

CATALOG NUMBER: 14PD-45-PP3-L840

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1570.6	1570.6	1570.6	1570.6	1570.6
2.5°	1571.0	1571.0	1570.1	1568.7	1571.9
5°	1568.7	1569.2	1568.3	1566.9	1569.2
7.5°	1565.6	1566.0	1564.6	1563.3	1565.1
10°	1560.5	1560.1	1558.7	1557.8	1560.1
12.5°	1553.2	1552.8	1551.4	1550.5	1552.3
15°	1544.1	1544.1	1541.8	1540.4	1540.9
17.5°	1533.1	1533.1	1529.9	1526.7	1527.6
20°	1520.3	1519.9	1515.3	1512.1	1511.7
22.5°	1504.4	1504.4	1498.0	1493.9	1492.5
25°	1484.7	1484.3	1477.0	1471.0	1470.1
27.5°	1462.3	1461.4	1452.7	1446.8	1444.5
30°	1434.5	1433.6	1424.4	1418.0	1415.3
32.5°	1401.6	1403.0	1392.5	1385.2	1382.4
35°	1364.1	1364.1	1355.9	1348.2	1343.6
37.5°	1321.2	1321.2	1313.5	1305.7	1300.2
40°	1272.4	1272.8	1264.6	1255.0	1250.4
42.5°	1217.6	1218.5	1207.5	1199.7	1194.7
45°	1157.7	1158.2	1146.3	1137.6	1133.5
47.5°	1092.9	1092.0	1078.7	1071.4	1067.3
50°	1023.5	1021.6	1007.0	1000.2	996.5
52.5°	950.8	947.2	934.4	924.4	921.2
55°	875.5	870.5	854.5	844.4	843.5
57.5°	796.9	791.0	777.8	768.2	764.5
60°	711.1	709.7	698.7	687.3	684.6
62.5°	630.7	626.6	617.0	603.3	601.9
65°	544.8	542.6	533.9	521.1	518.3
67.5°	456.2	458.5	451.2	439.8	436.1
70°	376.3	377.7	369.5	359.0	357.6
72.5°	295.9	298.2	291.4	284.5	283.2
75°	222.4	223.3	220.1	214.2	209.6
77.5°	158.0	161.2	157.6	153.4	149.8
80°	110.1	105.0	105.5	103.7	99.6
82.5°	66.2	63.9	63.5	61.7	59.8
85°	33.3	32.9	33.3	32.9	31.1
87.5°	11.0	11.9	12.3	12.3	11.4
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)