

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: P413001

Luminaire Tested: **14PD-45-PC3-L830**

Issue Date: 9/15/2020



**Test Information**

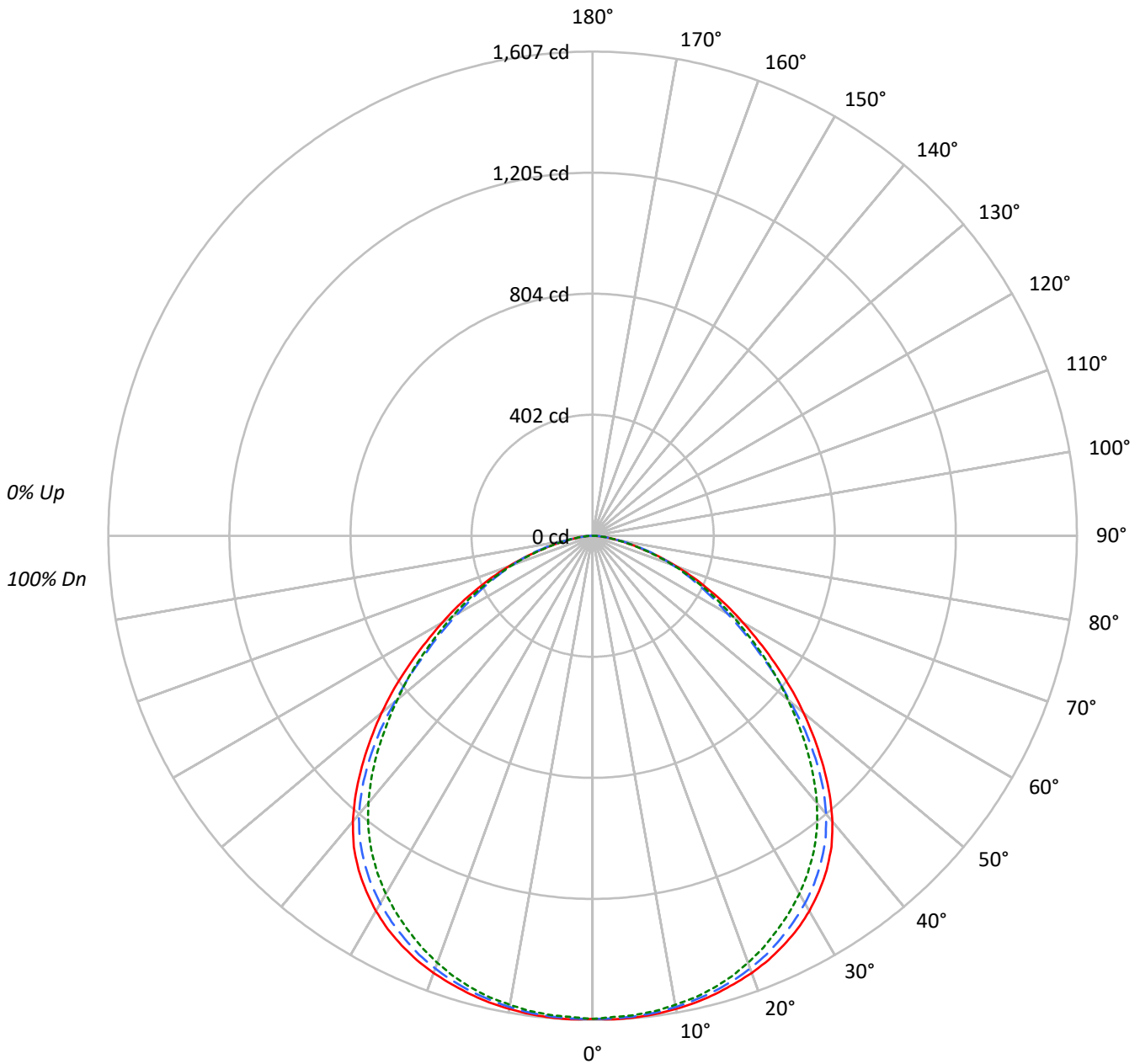
Test Method: LM-79-08  
Report Number: P413001  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-57)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 14PD-45-PC3-L830  
Description: 4500 LUMEN 1X4 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 80 CRI, 3000 CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4143.0 lumens  
Efficiency: N/A  
Efficacy: 96.6 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): 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

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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20					20					20					20					20					
RC	80					70					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°	4314	4314	4314
5°	4336	4325	4313
10°	4357	4340	4318
15°	4387	4359	4328
20°	4422	4377	4318
25°	4454	4382	4294
30°	4469	4379	4264
35°	4449	4342	4202
40°	4349	4236	4066
45°	4121	3981	3835
50°	3826	3582	3540
55°	3464	3157	3227
60°	3098	2780	2903
65°	2733	2493	2579
70°	2326	2209	2225
75°	1788	1884	1736
80°	1311	1376	1300
85°	877	966	945



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	152.3	3.7
10°-20°	441.6	10.7
20°-30°	679.2	16.4
30°-40°	821.9	19.8
40°-50°	802.4	19.4
50°-60°	620.0	15.0
60°-70°	398.2	9.6
70°-80°	187.9	4.5
80°-90°	39.4	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°	1273.2	30.7
0°-40°	2095.1	50.6
0°-60°	3517.5	84.9
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°	1603	1603	1603	1603	1603	
5°	1605	1598	1601	1600	1597	153
15°	1575	1567	1565	1559	1553	445
25°	1500	1488	1476	1457	1446	691
35°	1354	1340	1322	1292	1279	845
45°	1083	1070	1046	1019	1008	833
55°	738	703	673	674	688	662
65°	429	404	392	387	405	427
75°	172	175	181	166	167	189
85°	28	33	31	31	31	37
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1603.2	1603.2	1603.2	1603.2	1603.2
2.5°	1606.7	1600.3	1603.9	1603.9	1598.9
5°	1605.3	1598.2	1601.0	1599.6	1596.8
7.5°	1601.0	1593.9	1596.0	1594.6	1591.1
10°	1594.6	1586.8	1588.2	1585.4	1580.4
12.5°	1586.1	1579.0	1577.6	1573.3	1569.8
15°	1574.7	1566.9	1564.8	1559.1	1553.4
17.5°	1559.8	1552.0	1548.4	1539.9	1533.5
20°	1544.2	1534.9	1528.5	1515.7	1507.9
22.5°	1524.3	1513.6	1505.1	1487.3	1479.5
25°	1500.1	1488.0	1476.0	1456.8	1446.1
27.5°	1471.7	1458.9	1444.7	1423.4	1411.3
30°	1438.3	1425.5	1409.2	1385.0	1372.2
32.5°	1398.5	1385.7	1368.7	1340.9	1328.1
35°	1354.4	1340.2	1321.8	1291.9	1279.1
37.5°	1301.9	1286.2	1269.2	1236.5	1223.0
40°	1237.9	1224.4	1205.9	1173.2	1157.6
42.5°	1164.0	1151.9	1131.3	1100.0	1085.1
45°	1083.0	1069.5	1046.0	1019.0	1007.7
47.5°	998.4	978.5	955.8	932.3	925.9
50°	913.9	888.3	855.6	843.5	845.6
52.5°	827.2	794.5	766.0	756.8	767.5
55°	738.3	702.8	673.0	673.7	687.9
57.5°	653.8	616.8	591.9	591.9	610.4
60°	575.6	541.5	516.6	515.9	539.4
62.5°	503.1	468.3	449.8	449.8	471.1
65°	429.2	403.6	391.6	387.3	405.1
67.5°	361.0	343.2	334.7	329.7	341.1
70°	295.6	284.2	280.7	275.0	282.8
72.5°	231.0	228.1	235.2	221.7	225.3
75°	172.0	174.8	181.2	166.3	167.0
77.5°	123.6	129.3	131.5	124.4	124.4
80°	84.6	91.7	88.8	85.3	83.9
82.5°	54.0	57.6	57.6	55.4	54.0
85°	28.4	32.7	31.3	30.6	30.6
87.5°	10.7	14.9	14.9	14.2	13.5
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)