

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: P413009

Luminaire Tested: **14PD-45-PC3-L950**

Issue Date: 9/15/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P413009  
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-L950  
Description: 4500 LUMEN 1X4 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 90 CRI, 5000 CCT LEDS  
Light Source: -  
Ballast/Driver: -

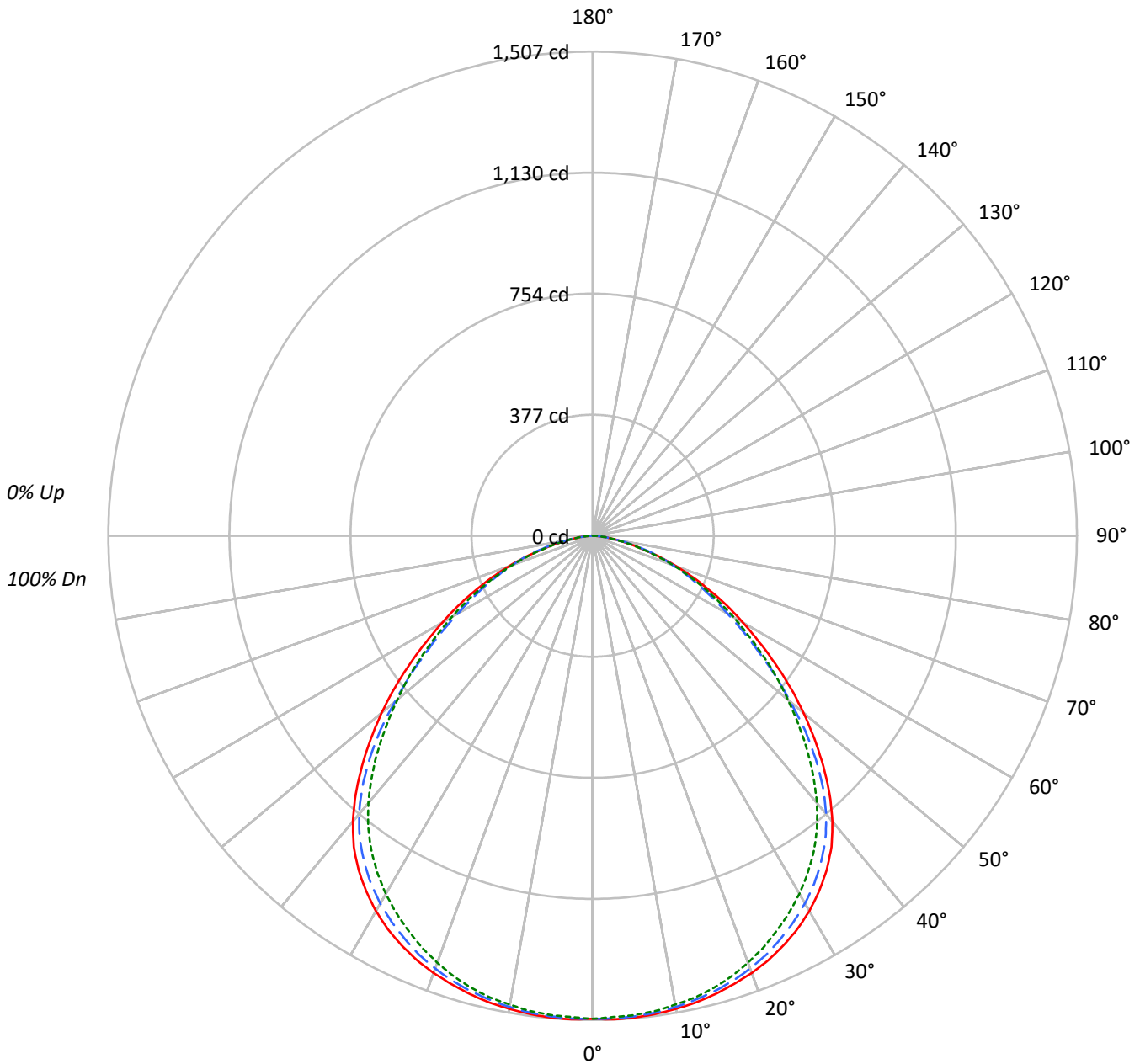
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3885.0 lumens  
Efficiency: N/A  
Efficacy: 90.6 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									
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°	4045	4045	4045
5°	4066	4055	4045
10°	4086	4069	4050
15°	4114	4088	4058
20°	4147	4105	4049
25°	4177	4109	4026
30°	4191	4106	3998
35°	4172	4072	3940
40°	4078	3972	3813
45°	3865	3733	3596
50°	3587	3359	3320
55°	3248	2960	3026
60°	2905	2607	2722
65°	2563	2338	2418
70°	2181	2071	2087
75°	1677	1766	1628
80°	1229	1291	1218
85°	824	905	886



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	142.8	3.7
10°-20°	414.1	10.7
20°-30°	636.9	16.4
30°-40°	770.7	19.8
40°-50°	752.4	19.4
50°-60°	581.4	15.0
60°-70°	373.4	9.6
70°-80°	176.2	4.5
80°-90°	37.0	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°	1193.9	30.7
0°-40°	1964.6	50.6
0°-60°	3298.4	84.9
0°-90°	3885.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3885.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1503	1503	1503	1503	1503	
5°	1505	1499	1501	1500	1497	143
15°	1477	1469	1467	1462	1457	417
25°	1407	1395	1384	1366	1356	648
35°	1270	1257	1239	1212	1200	792
45°	1016	1003	981	956	945	781
55°	692	659	631	632	645	621
65°	402	378	367	363	380	401
75°	161	164	170	156	157	177
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°	1503.3	1503.3	1503.3	1503.3	1503.3
2.5°	1506.7	1500.7	1504.0	1504.0	1499.3
5°	1505.3	1498.7	1501.3	1500.0	1497.3
7.5°	1501.3	1494.7	1496.7	1495.3	1492.0
10°	1495.3	1488.0	1489.3	1486.7	1482.0
12.5°	1487.3	1480.7	1479.3	1475.3	1472.0
15°	1476.7	1469.3	1467.3	1462.0	1456.7
17.5°	1462.7	1455.3	1452.0	1444.0	1438.0
20°	1448.0	1439.3	1433.4	1421.4	1414.0
22.5°	1429.4	1419.4	1411.4	1394.7	1387.4
25°	1406.7	1395.4	1384.0	1366.0	1356.1
27.5°	1380.0	1368.0	1354.7	1334.7	1323.4
30°	1348.7	1336.7	1321.4	1298.7	1286.8
32.5°	1311.4	1299.4	1283.4	1257.4	1245.4
35°	1270.1	1256.8	1239.4	1211.5	1199.5
37.5°	1220.8	1206.1	1190.1	1159.5	1146.8
40°	1160.8	1148.1	1130.8	1100.2	1085.5
42.5°	1091.5	1080.2	1060.9	1031.5	1017.5
45°	1015.5	1002.9	980.9	955.6	944.9
47.5°	936.2	917.6	896.3	874.3	868.3
50°	856.9	833.0	802.3	791.0	793.0
52.5°	775.6	745.0	718.3	709.7	719.7
55°	692.4	659.0	631.0	631.7	645.0
57.5°	613.1	578.4	555.1	555.1	572.4
60°	539.8	507.8	484.4	483.8	505.8
62.5°	471.8	439.1	421.8	421.8	441.8
65°	402.5	378.5	367.2	363.2	379.8
67.5°	338.5	321.9	313.9	309.2	319.9
70°	277.2	266.5	263.2	257.9	265.2
72.5°	216.6	213.9	220.6	207.9	211.2
75°	161.3	163.9	169.9	155.9	156.6
77.5°	115.9	121.3	123.3	116.6	116.6
80°	79.3	86.0	83.3	80.0	78.6
82.5°	50.6	54.0	54.0	52.0	50.6
85°	26.7	30.7	29.3	28.7	28.7
87.5°	10.0	14.0	14.0	13.3	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)