

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: P412666

Luminaire Tested: **14PD-45-PP3-L940**

Issue Date: 9/15/2020

**Test Information**

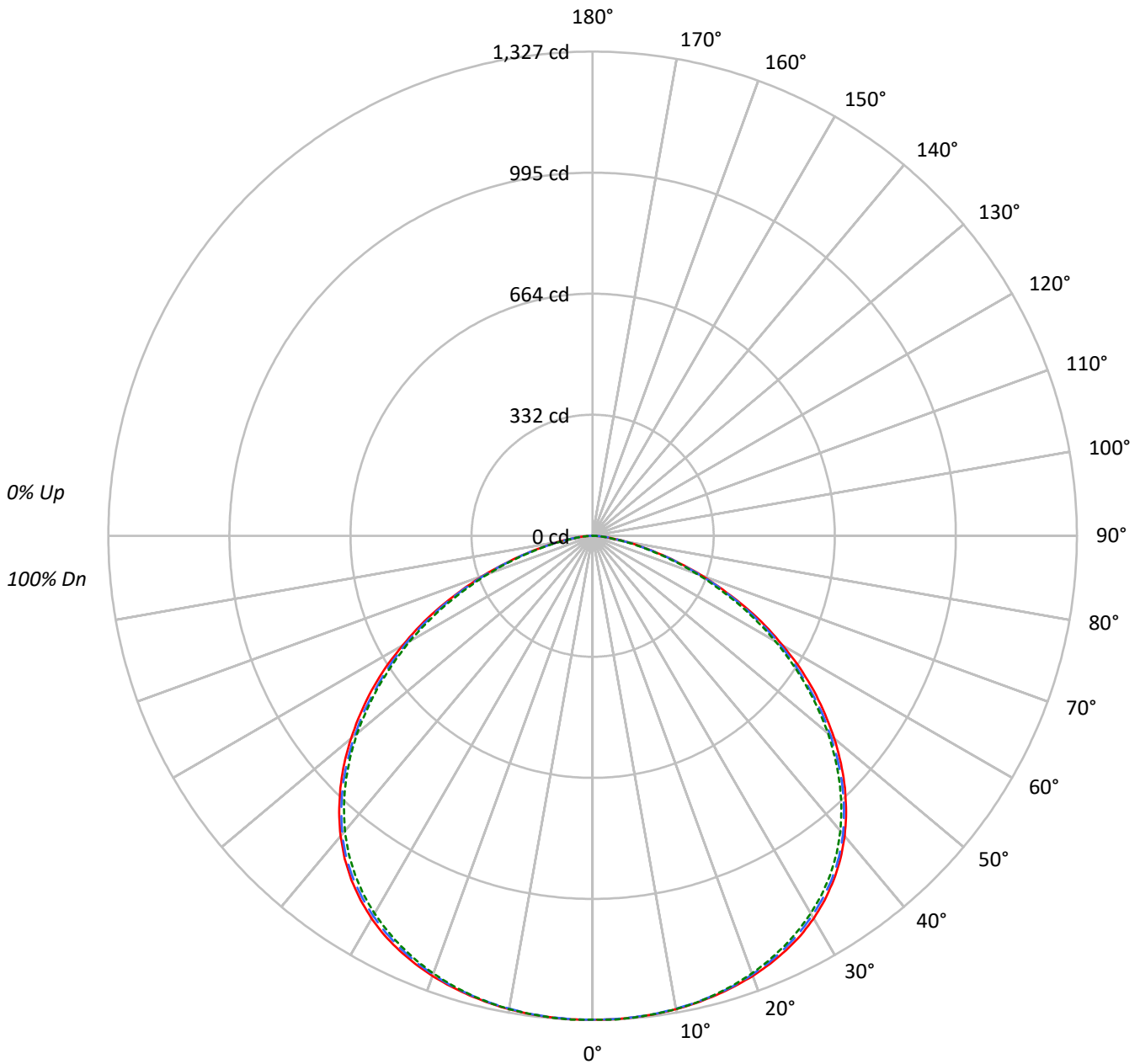
Test Method: LM-79-08  
Report Number: P412666  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-47)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 14PD-45-PP3-L940  
Description: 4500 LUMEN 1X4 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 90 CRI, 4000 CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3859.0 lumens  
Efficiency: N/A  
Efficacy: 90.0 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

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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	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°	3569	3569	3569
5°	3578	3577	3579
10°	3601	3597	3600
15°	3633	3627	3625
20°	3676	3664	3655
25°	3722	3703	3686
30°	3764	3737	3714
35°	3784	3761	3727
40°	3774	3751	3709
45°	3720	3684	3643
50°	3618	3560	3523
55°	3468	3385	3342
60°	3231	3175	3111
65°	2930	2870	2787
70°	2500	2455	2376
75°	1953	1933	1840
80°	1440	1381	1303
85°	871	871	809



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	126.2	3.3
10°-20°	368.2	9.5
20°-30°	575.5	14.9
30°-40°	715.2	18.5
40°-50°	745.2	19.3
50°-60°	646.6	16.8
60°-70°	444.6	11.5
70°-80°	200.7	5.2
80°-90°	36.8	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°	1069.9	27.7
0°-40°	1785.1	46.3
0°-60°	3176.9	82.3
0°-90°	3859.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3859.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1326	1326	1326	1326	1326	
5°	1325	1325	1324	1323	1325	126
15°	1304	1304	1302	1301	1301	369
25°	1254	1253	1247	1242	1241	578
35°	1152	1152	1145	1138	1135	720
45°	978	978	968	961	957	752
55°	739	735	722	713	712	659
65°	460	458	451	440	438	454
75°	188	189	186	181	177	204
85°	28	28	28	28	26	38
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1326.2	1326.2	1326.2	1326.2	1326.2
2.5°	1326.6	1326.6	1325.8	1324.7	1327.4
5°	1324.7	1325.1	1324.3	1323.1	1325.1
7.5°	1322.0	1322.4	1321.2	1320.1	1321.6
10°	1317.7	1317.4	1316.2	1315.4	1317.4
12.5°	1311.6	1311.2	1310.0	1309.3	1310.8
15°	1303.9	1303.9	1301.9	1300.8	1301.2
17.5°	1294.6	1294.6	1291.9	1289.2	1290.0
20°	1283.8	1283.4	1279.6	1276.9	1276.5
22.5°	1270.3	1270.3	1264.9	1261.4	1260.3
25°	1253.7	1253.3	1247.2	1242.2	1241.4
27.5°	1234.8	1234.1	1226.7	1221.7	1219.8
30°	1211.3	1210.5	1202.8	1197.4	1195.1
32.5°	1183.5	1184.7	1175.8	1169.7	1167.3
35°	1151.9	1151.9	1145.0	1138.4	1134.6
37.5°	1115.7	1115.7	1109.1	1102.6	1097.9
40°	1074.4	1074.8	1067.8	1059.7	1055.9
42.5°	1028.1	1028.9	1019.6	1013.1	1008.8
45°	977.6	978.0	968.0	960.6	957.2
47.5°	922.8	922.1	910.9	904.7	901.2
50°	864.2	862.7	850.3	844.6	841.5
52.5°	802.9	799.8	789.0	780.5	777.8
55°	739.3	735.0	721.5	713.1	712.3
57.5°	672.9	667.9	656.7	648.7	645.6
60°	600.4	599.3	590.0	580.4	578.1
62.5°	532.6	529.1	521.0	509.4	508.3
65°	460.1	458.1	450.8	440.0	437.7
67.5°	385.3	387.2	381.0	371.4	368.3
70°	317.8	318.9	312.0	303.1	302.0
72.5°	249.9	251.8	246.0	240.3	239.1
75°	187.8	188.6	185.9	180.9	177.0
77.5°	133.4	136.1	133.0	129.6	126.5
80°	92.9	88.7	89.1	87.5	84.1
82.5°	55.9	54.0	53.6	52.1	50.5
85°	28.2	27.8	28.2	27.8	26.2
87.5°	9.3	10.0	10.4	10.4	9.6
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)