

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: P412941

Luminaire Tested: **24PD-90-PP3-L850**

Issue Date: 9/15/2020

**Test Information**

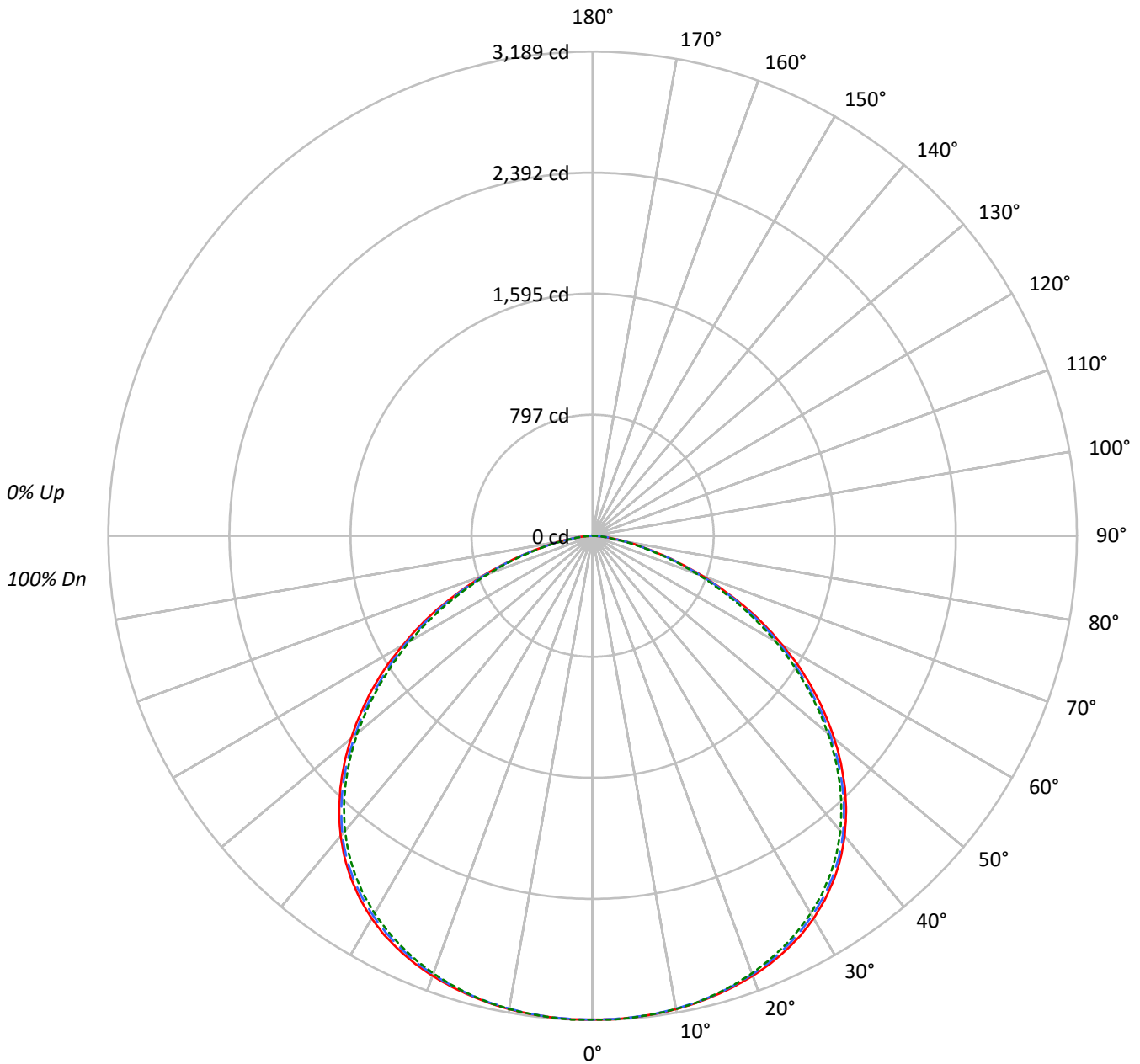
Test Method: LM-79-08  
Report Number: P412941  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-47)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 24PD-90-PP3-L850  
Description: 9000 LUMEN 2X4 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 80 CRI, 5000 CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9272.0 lumens  
Efficiency: N/A  
Efficacy: 133.0 lumens/watt  
Spacing Criteria (0/90/45): 1.35 / 1.33 / 1.43  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 69.7  
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	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°	4287	4287	4287
5°	4299	4298	4300
10°	4326	4321	4324
15°	4364	4357	4355
20°	4417	4402	4391
25°	4472	4449	4428
30°	4522	4490	4461
35°	4546	4519	4478
40°	4534	4506	4456
45°	4470	4425	4376
50°	4347	4277	4232
55°	4167	4067	4015
60°	3882	3815	3738
65°	3519	3449	3348
70°	3004	2949	2854
75°	2346	2322	2211
80°	1730	1658	1565
85°	1044	1044	973



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	303.2	3.3
10°-20°	884.6	9.5
20°-30°	1382.7	14.9
30°-40°	1718.5	18.5
40°-50°	1790.5	19.3
50°-60°	1553.7	16.8
60°-70°	1068.3	11.5
70°-80°	482.1	5.2
80°-90°	88.3	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°	2570.5	27.7
0°-40°	4289.0	46.3
0°-60°	7633.2	82.3
0°-90°	9272.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9272.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3186	3186	3186	3186	3186	
5°	3183	3184	3182	3179	3184	303
15°	3133	3133	3128	3125	3126	886
25°	3012	3011	2997	2984	2983	1390
35°	2768	2768	2751	2735	2726	1729
45°	2349	2350	2326	2308	2300	1808
55°	1776	1766	1734	1713	1711	1583
65°	1105	1101	1083	1057	1052	1091
75°	451	453	447	435	425	491
85°	68	67	68	67	63	91
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3186.5	3186.5	3186.5	3186.5	<i>3186.5</i>
2.5°	<i>3187.4</i>	<i>3187.4</i>	<i>3185.6</i>	<i>3182.8</i>	<i>3189.3</i>
5°	3182.8	3183.7	3181.9	3179.1	<i>3183.7</i>
7.5°	3176.3	3177.3	3174.5	3171.7	<i>3175.4</i>
10°	3166.1	3165.2	3162.4	3160.6	<i>3165.2</i>
12.5°	3151.3	3150.4	3147.6	3145.7	<i>3149.5</i>
15°	3132.8	3132.8	3128.1	3125.4	<i>3126.3</i>
17.5°	3110.5	3110.5	3104.1	3097.6	<i>3099.4</i>
20°	3084.6	3083.7	3074.4	3067.9	<i>3067.0</i>
22.5°	3052.2	3052.2	3039.2	3030.9	<i>3028.1</i>
25°	3012.3	3011.4	2996.6	2984.5	<i>2982.7</i>
27.5°	2966.9	2965.1	2947.5	2935.4	<i>2930.8</i>
30°	2910.4	2908.5	2890.0	2877.0	<i>2871.5</i>
32.5°	2843.7	2846.5	2825.1	2810.3	<i>2804.8</i>
35°	2767.7	2767.7	2751.0	2735.3	<i>2726.0</i>
37.5°	2680.6	2680.6	2664.9	2649.1	<i>2638.0</i>
40°	2581.5	2582.4	2565.7	2546.2	<i>2537.0</i>
42.5°	2470.3	2472.1	2449.9	2434.1	<i>2423.9</i>
45°	2348.9	2349.8	2325.7	2308.1	<i>2299.8</i>
47.5°	2217.3	2215.5	2188.6	2173.8	<i>2165.4</i>
50°	2076.5	2072.8	2043.1	2029.2	<i>2021.8</i>
52.5°	1929.1	1921.7	1895.8	1875.4	<i>1868.9</i>
55°	1776.3	1766.1	1733.6	1713.3	<i>1711.4</i>
57.5°	1616.9	1604.8	1578.0	1558.5	<i>1551.1</i>
60°	1442.7	1439.9	1417.7	1394.5	<i>1388.9</i>
62.5°	1279.6	1271.3	1251.8	1224.0	<i>1221.2</i>
65°	1105.4	1100.8	1083.2	1057.2	<i>1051.7</i>
67.5°	925.7	930.3	915.5	892.3	<i>884.9</i>
70°	763.5	766.3	749.6	728.3	<i>725.5</i>
72.5°	600.4	605.1	591.2	577.3	<i>574.5</i>
75°	451.2	453.1	446.6	434.6	<i>425.3</i>
77.5°	320.6	327.1	319.7	311.3	<i>303.9</i>
80°	223.3	213.1	214.0	210.3	<i>202.0</i>
82.5°	134.4	129.7	128.8	125.1	<i>121.4</i>
85°	67.6	66.7	67.6	66.7	<i>63.0</i>
87.5°	22.2	24.1	25.0	25.0	<i>23.2</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>



Report Generated By 670246072 / DESKTOP-MV3F9LC







— 0°-180°    - - 45°-225°    - - - - 90°-270°







(END OF REPORT)