

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: P738658

Luminaire Tested: **24PT-80-PC3-L850**

Issue Date: 2/8/2024



**Test Information**

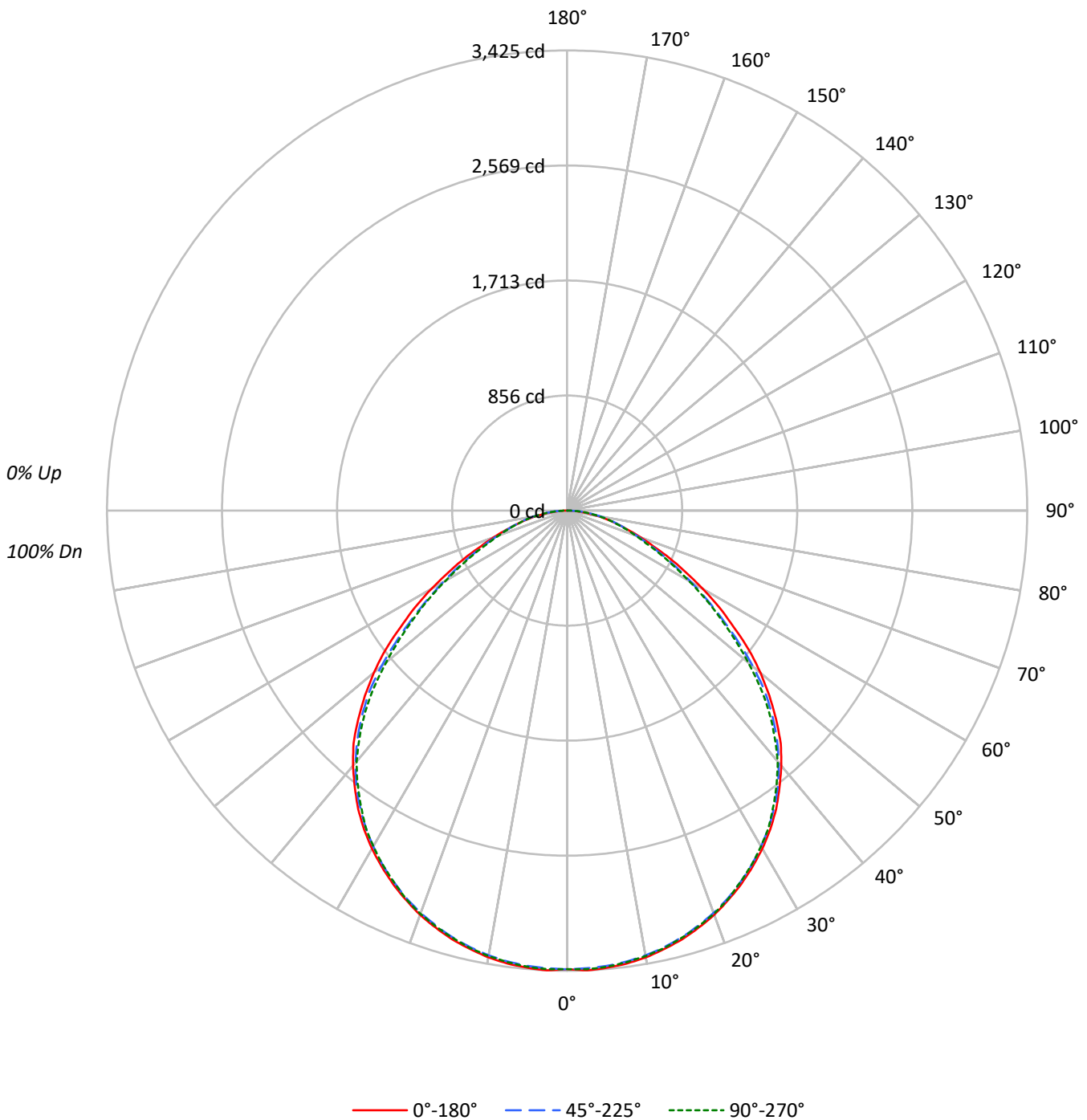
Test Method: LM-79-08  
Report Number: P738658  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2210-816-10)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/8/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 24PT-80-PC3-L850  
Description: 8000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 5000K, 80 CRI LEDS AND PARAMID LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8611.0 lumens  
Efficiency: N/A  
Efficacy: 126.1 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.25 / 1.35  
Luminous Opening: Rectangular (W 1.92' x L: 3.92' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 68.3  
Input Voltage (V): NR  
Input Current (Ain): 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	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	88	86					86			
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73					73			
3	92	82	74	68	90	81	73	68	78	72	67	75	70	65	72	68	64	62					62			
4	85	73	65	59	82	72	64	58	69	63	57	67	61	57	65	60	56	54					54			
5	78	66	57	51	76	65	57	51	63	55	50	61	54	50	59	53	49	47					47			
6	72	59	51	45	70	59	50	44	57	50	44	55	49	44	54	48	43	41					41			
7	67	54	46	40	65	53	45	40	52	45	39	50	44	39	49	43	39	37					37			
8	63	49	41	36	61	49	41	35	47	40	35	46	40	35	45	39	35	33					33			
9	58	45	37	32	57	45	37	32	44	37	32	43	36	32	42	36	31	30					30			
10	55	42	34	29	54	41	34	29	40	34	29	40	33	29	39	33	29	27					27			

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

	0°	45°	90°
0°	4895	4895	4895
5°	4916	4896	4905
10°	4916	4894	4901
15°	4905	4883	4888
20°	4886	4863	4873
25°	4852	4828	4827
30°	4810	4779	4777
35°	4746	4708	4687
40°	4640	4585	4563
45°	4460	4377	4316
50°	4188	4027	3921
55°	3786	3530	3463
60°	3349	3054	2994
65°	2863	2646	2579
70°	2426	2322	2255
75°	2126	2163	2090
80°	1907	2102	1985
85°	1611	1923	1829



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	323.7	3.8
10°-20°	929.1	10.8
20°-30°	1407.4	16.3
30°-40°	1681.0	19.5
40°-50°	1658.3	19.3
50°-60°	1283.7	14.9
60°-70°	789.0	9.2
70°-80°	413.4	4.8
80°-90°	125.3	1.5
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°	2660.2	30.9
0°-40°	4341.2	50.4
0°-60°	7283.2	84.6
0°-90°	8611.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8611.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3414	3414	3414	3414	3414	
5°	3416	3405	3401	3400	3408	325
15°	3304	3294	3289	3286	3293	932
25°	3067	3058	3052	3050	3051	1413
35°	2712	2699	2690	2681	2677	1693
45°	2200	2183	2159	2136	2128	1692
55°	1514	1474	1412	1391	1385	1359
65°	844	805	780	757	760	842
75°	384	388	390	383	377	414
85°	98	109	117	114	111	114
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3413.8	3413.8	3413.8	3413.8	3413.8
2.5°	3425.2	3414.7	3410.0	3409.0	3416.6
5°	3415.7	3405.2	3401.4	3399.5	3408.1
7.5°	3400.5	3389.1	3385.3	3382.4	3390.0
10°	3376.7	3365.3	3361.5	3359.6	3366.2
12.5°	3342.5	3332.0	3329.2	3326.3	3334.9
15°	3304.5	3294.0	3289.3	3286.4	3293.1
17.5°	3255.1	3246.5	3240.8	3240.8	3246.5
20°	3201.9	3191.4	3186.7	3183.8	3193.3
22.5°	3136.3	3129.7	3124.0	3119.2	3129.7
25°	3067.0	3057.5	3051.8	3049.9	3050.8
27.5°	2988.1	2981.5	2973.9	2971.0	2972.9
30°	2905.4	2896.9	2886.4	2880.7	2885.5
32.5°	2813.3	2800.9	2792.4	2786.7	2793.3
35°	2711.6	2699.3	2689.8	2681.2	2677.4
37.5°	2595.7	2591.9	2578.6	2563.4	2562.5
40°	2478.8	2468.4	2449.4	2442.7	2438.0
42.5°	2353.4	2331.6	2311.6	2292.6	2286.0
45°	2199.5	2183.4	2158.7	2135.9	2128.3
47.5°	2041.8	2020.9	1997.1	1957.2	1952.5
50°	1877.4	1847.0	1805.2	1772.0	1757.7
52.5°	1706.4	1665.5	1607.6	1579.1	1571.5
55°	1514.5	1473.6	1411.9	1391.0	1385.3
57.5°	1343.5	1283.6	1233.2	1209.5	1217.1
60°	1167.7	1109.7	1065.1	1042.3	1044.2
62.5°	995.7	950.1	916.9	895.0	897.9
65°	843.7	804.7	780.0	757.2	760.1
67.5°	694.5	676.5	658.4	645.1	637.5
70°	578.6	571.0	553.9	541.6	537.8
72.5°	473.2	477.9	463.7	459.9	458.9
75°	383.8	387.6	390.5	382.9	377.2
77.5°	306.9	312.6	324.0	313.5	311.6
80°	230.9	242.3	254.6	248.0	240.4
82.5°	161.5	175.8	187.2	178.6	174.8
85°	97.9	109.3	116.9	114.0	111.2
87.5°	43.7	47.5	51.3	52.3	50.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)