

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: P738712

Luminaire Tested: **24PT-90-PW1-L835**

Issue Date: 2/8/2024



**Test Information**

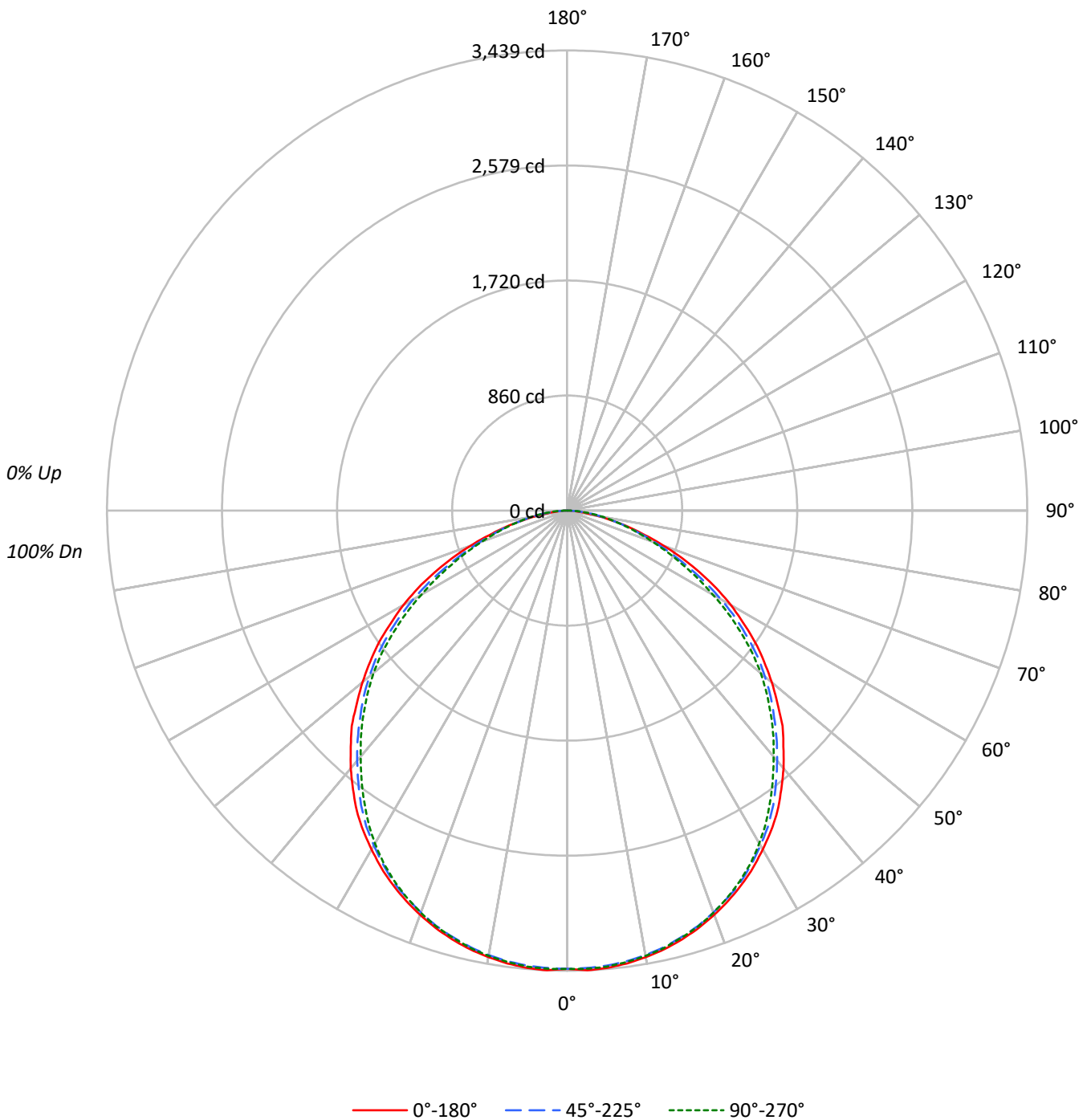
Test Method: LM-79-08  
Report Number: P738712  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2210-816-13)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/8/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 24PT-90-PW1-L835  
Description: 9000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3500K, 80 CRI LEDS AND WAVES LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9132.0 lumens  
Efficiency: N/A  
Efficacy: 120.6 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 1.92' x L: 3.92' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 75.7  
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	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	95	98	95	92	94	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	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31
9	57	44	36	31	56	44	36	31	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	37	32	27	26

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

	0°	45°	90°
0°	4911	4911	4911
5°	4938	4914	4924
10°	4935	4912	4920
15°	4925	4899	4905
20°	4906	4877	4880
25°	4879	4851	4832
30°	4841	4785	4756
35°	4797	4700	4634
40°	4709	4570	4494
45°	4616	4437	4365
50°	4453	4303	4212
55°	4290	4106	3958
60°	4055	3805	3609
65°	3712	3389	3215
70°	3217	2939	2831
75°	2633	2534	2501
80°	1921	2167	2232
85°	1287	1808	1922



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	324.8	3.6
10°-20°	932.5	10.2
20°-30°	1411.3	15.5
30°-40°	1679.2	18.4
40°-50°	1696.2	18.6
50°-60°	1467.7	16.1
60°-70°	1002.6	11.0
70°-80°	494.1	5.4
80°-90°	123.5	1.4
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°	2668.6	29.2
0°-40°	4347.9	47.6
0°-60°	7511.8	82.3
0°-90°	9132.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9132.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3425	3425	3425	3425	3425	
5°	3431	3418	3414	3411	3421	326
15°	3318	3307	3300	3298	3304	936
25°	3084	3072	3066	3054	3054	1421
35°	2741	2718	2685	2656	2648	1711
45°	2276	2238	2188	2163	2152	1748
55°	1716	1692	1643	1608	1583	1528
65°	1094	1052	999	966	948	1081
75°	475	461	457	454	452	508
85°	78	97	110	114	117	101
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3424.9	3424.9	3424.9	3424.9	3424.9
2.5°	3438.7	3425.8	3421.9	3418.9	3427.8
5°	3430.8	3417.9	3414.0	3411.0	3420.9
7.5°	3414.0	3401.1	3397.1	3394.2	3402.1
10°	3389.2	3377.3	3373.4	3370.4	3379.3
12.5°	3357.5	3346.6	3341.7	3337.7	3347.6
15°	3317.9	3307.0	3300.1	3298.1	3304.1
17.5°	3270.4	3259.5	3254.6	3251.6	3258.5
20°	3214.9	3203.1	3196.1	3192.2	3198.1
22.5°	3153.6	3141.7	3132.8	3128.8	3130.8
25°	3084.2	3072.4	3066.4	3054.5	3054.5
27.5°	3010.0	2996.1	2981.3	2968.4	2969.4
30°	2923.8	2908.0	2890.2	2873.4	2872.4
32.5°	2836.7	2816.9	2795.1	2772.4	2765.4
35°	2740.7	2717.9	2685.2	2655.5	2647.6
37.5°	2627.8	2607.0	2563.4	2538.7	2525.8
40°	2515.9	2486.2	2441.7	2412.9	2401.1
42.5°	2393.1	2364.4	2316.9	2290.2	2280.3
45°	2276.3	2237.7	2188.2	2163.4	2152.5
47.5°	2130.8	2099.1	2064.4	2035.7	2021.8
50°	1996.1	1970.4	1928.8	1897.1	1888.2
52.5°	1855.5	1833.7	1794.1	1752.5	1742.6
55°	1715.9	1692.1	1642.6	1608.0	1583.2
57.5°	1558.5	1537.7	1491.1	1446.6	1424.8
60°	1413.9	1378.3	1326.8	1278.3	1258.5
62.5°	1256.5	1221.8	1162.4	1112.9	1102.0
65°	1094.1	1052.5	999.0	966.4	947.6
67.5°	929.7	889.1	844.6	823.8	811.9
70°	767.3	734.7	701.0	686.2	675.3
72.5°	610.9	592.1	573.3	567.3	557.4
75°	475.3	461.4	457.4	454.5	451.5
77.5°	342.6	349.5	353.5	357.4	353.5
80°	232.7	247.5	262.4	270.3	270.3
82.5°	143.6	169.3	182.2	190.1	189.1
85°	78.2	97.0	109.9	113.9	116.8
87.5°	31.7	39.6	44.6	48.5	50.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)