

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: P738695

Luminaire Tested: **24PT-90-PL1-L830**

Issue Date: 2/8/2024



**Test Information**

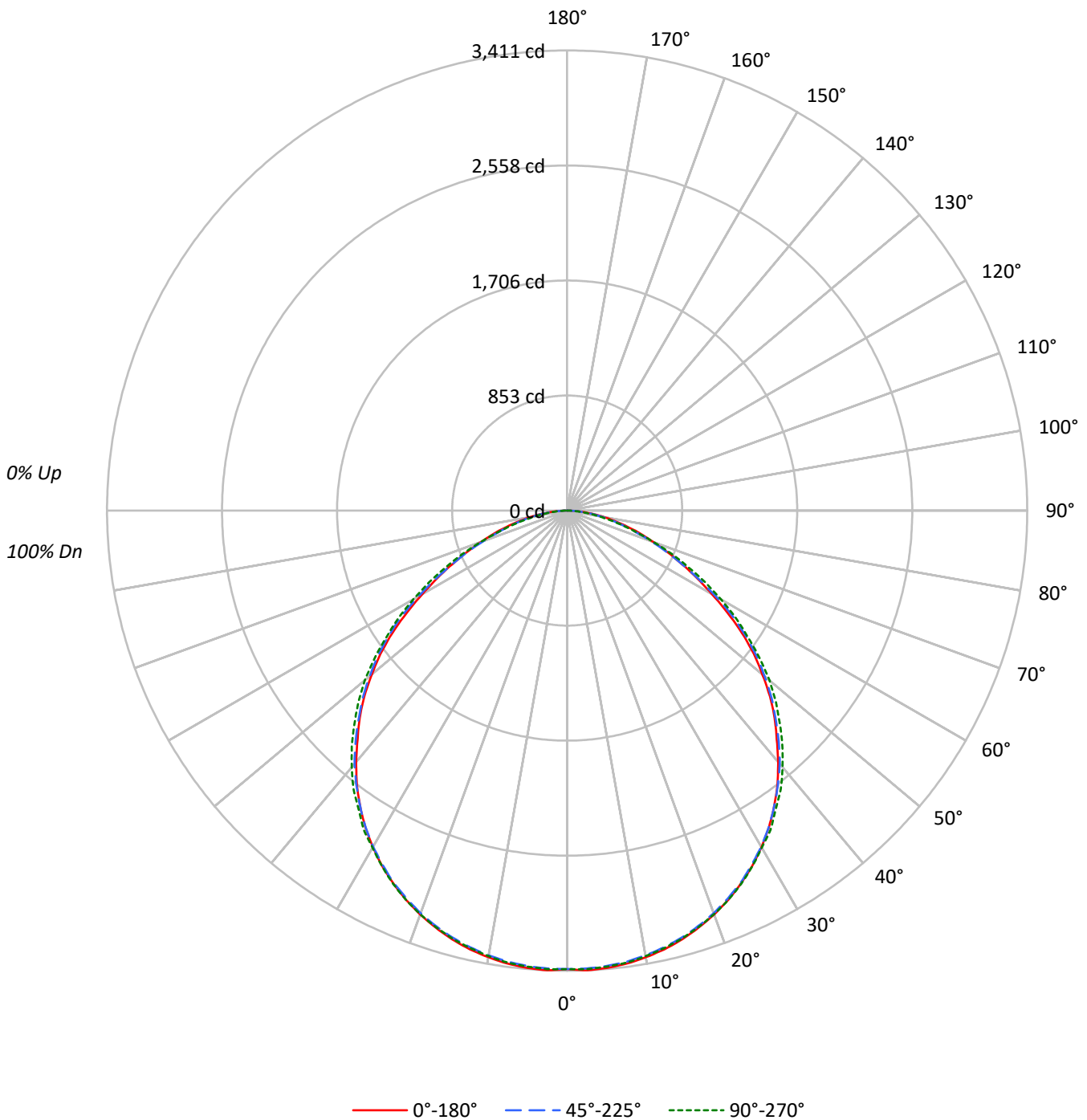
Test Method: LM-79-08  
Report Number: P738695  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2210-816-14)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/8/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 24PT-90-PL1-L830  
Description: 9000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3000K, 80 CRI LEDS AND LEAVES LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8997.0 lumens  
Efficiency: N/A  
Efficacy: 118.9 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 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 (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	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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85					85			
2	100	92	86	80	97	90	84	79	87	82	77	83	79	76	80	77	74	72					72			
3	91	81	73	67	89	80	72	67	77	70	65	74	69	64	71	67	63	61					61			
4	84	72	64	57	82	71	63	57	68	62	56	66	60	55	64	59	55	52					52			
5	77	65	56	49	75	64	55	49	61	54	49	60	53	48	58	52	48	46					46			
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	47	42	40					40			
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	37	35					35			
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	32					32			
9	58	44	36	31	56	44	36	31	43	36	31	42	35	30	41	35	30	29					29			
10	54	41	33	28	53	40	33	28	40	33	28	39	32	28	38	32	28	26					26			

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

	0°	45°	90°
0°	4874	4874	4874
5°	4898	4877	4884
10°	4895	4875	4884
15°	4886	4866	4876
20°	4861	4847	4859
25°	4826	4815	4830
30°	4769	4762	4778
35°	4683	4684	4720
40°	4554	4588	4650
45°	4412	4432	4519
50°	4215	4263	4365
55°	3957	4030	4091
60°	3553	3639	3774
65°	3179	3186	3358
70°	2834	2756	2855
75°	2560	2409	2366
80°	2275	2122	1872
85°	1864	1769	1463



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	322.4	3.6
10°-20°	925.8	10.3
20°-30°	1402.6	15.6
30°-40°	1676.1	18.6
40°-50°	1690.8	18.8
50°-60°	1434.5	15.9
60°-70°	949.1	10.5
70°-80°	471.0	5.2
80°-90°	124.6	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°	2650.8	29.5
0°-40°	4326.9	48.1
0°-60°	7452.2	82.8
0°-90°	8997.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8997.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3399	3399	3399	3399	3399	
5°	3403	3391	3388	3386	3393	323
15°	3292	3281	3278	3278	3285	929
25°	3050	3043	3043	3042	3053	1405
35°	2675	2671	2676	2691	2697	1671
45°	2176	2173	2186	2215	2229	1674
55°	1583	1587	1612	1627	1636	1407
65°	937	935	939	968	990	935
75°	462	449	435	421	427	495
85°	113	113	108	99	89	134
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3399.0	3399.0	3399.0	3399.0	3399.0
2.5°	3410.8	3400.0	3397.1	3395.1	3402.9
5°	3402.9	3391.2	3388.3	3386.3	3393.2
7.5°	3387.3	3374.6	3372.6	3370.7	3379.5
10°	3361.9	3350.2	3348.2	3346.3	3354.1
12.5°	3331.6	3319.9	3316.0	3317.0	3321.8
15°	3291.6	3280.8	3277.9	3277.9	3284.7
17.5°	3241.7	3232.0	3230.0	3229.0	3237.8
20°	3186.0	3176.3	3176.3	3179.2	3184.1
22.5°	3122.5	3115.7	3111.8	3113.7	3123.5
25°	3050.2	3043.4	3043.4	3042.4	3053.2
27.5°	2970.1	2961.3	2961.3	2969.1	2973.1
30°	2880.2	2872.4	2876.3	2882.2	2886.1
32.5°	2783.5	2778.6	2781.6	2790.4	2806.0
35°	2675.1	2671.2	2676.0	2690.7	2696.6
37.5°	2561.7	2558.8	2565.6	2585.2	2601.8
40°	2432.8	2432.8	2451.3	2468.9	2484.5
42.5°	2298.9	2307.7	2321.4	2348.7	2362.4
45°	2175.8	2172.9	2185.6	2214.9	2228.6
47.5°	2039.0	2036.1	2054.7	2075.2	2097.6
50°	1889.5	1888.6	1911.0	1928.6	1957.0
52.5°	1744.0	1752.8	1767.4	1783.0	1799.7
55°	1582.8	1586.7	1612.1	1626.7	1636.5
57.5°	1408.9	1421.6	1452.8	1474.3	1483.1
60°	1238.9	1246.7	1269.1	1307.2	1316.0
62.5°	1084.5	1087.4	1101.1	1144.1	1155.8
65°	937.0	935.0	938.9	968.2	989.7
67.5°	803.1	795.3	795.3	810.9	837.3
70°	676.1	664.4	657.5	662.4	681.0
72.5°	569.6	554.0	536.4	533.4	545.2
75°	462.1	449.4	434.8	421.1	427.0
77.5°	368.3	357.6	343.9	328.3	320.5
80°	275.5	271.6	257.0	242.3	226.7
82.5°	192.5	189.5	179.8	168.0	158.3
85°	113.3	113.3	107.5	98.7	88.9
87.5°	50.8	48.9	50.8	43.0	40.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)