

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: P738703

Luminaire Tested: **24PT-90-PR1-L830**

Issue Date: 2/8/2024



**Test Information**

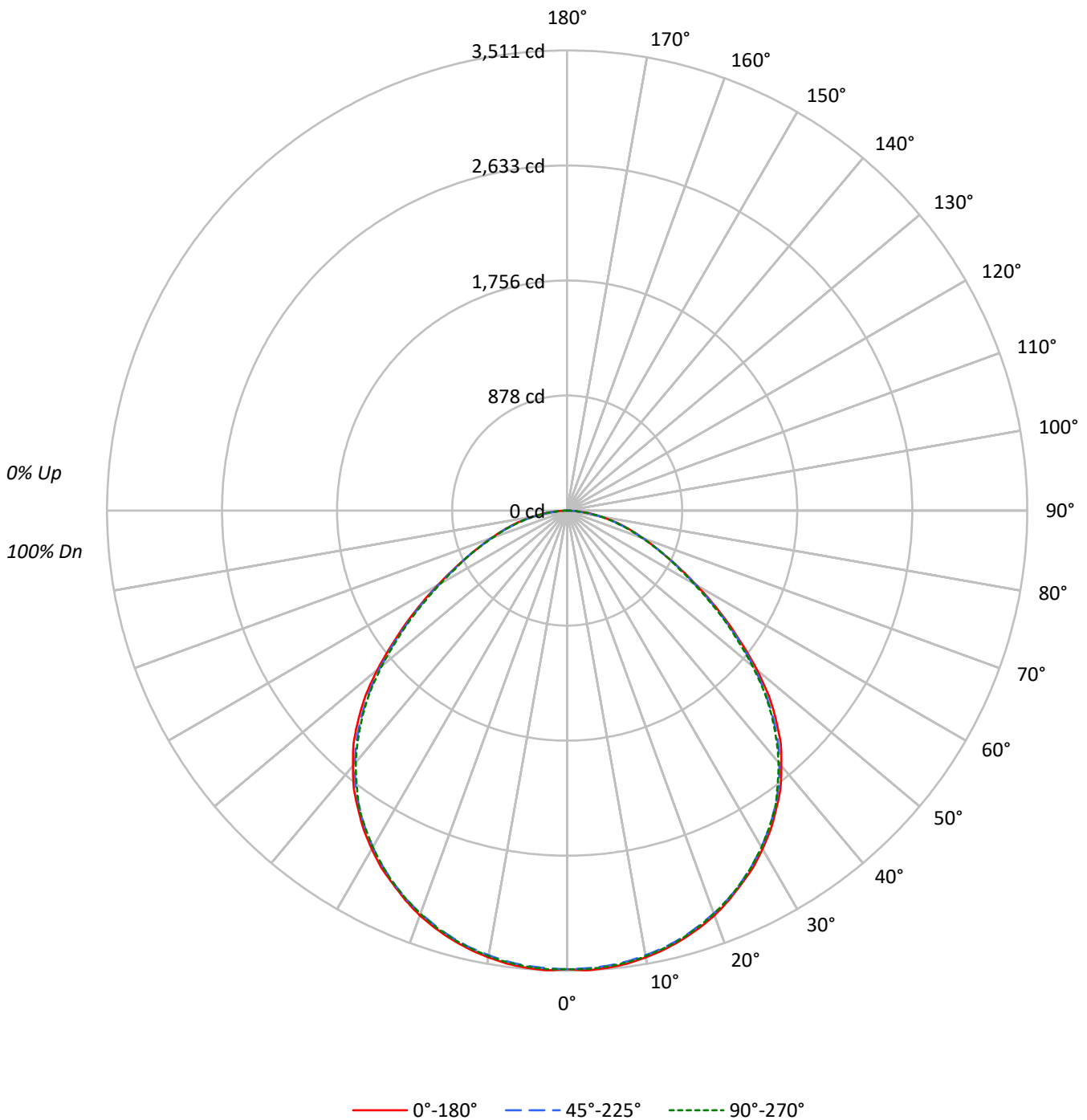
Test Method: LM-79-08  
Report Number: P738703  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2210-816-15)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/8/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 24PT-90-PR1-L830  
Description: 9000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3000K, 80 CRI LEDS AND RIPPLE LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8912.0 lumens  
Efficiency: N/A  
Efficacy: 117.7 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 (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	110	105	101	98	107	103	99	96	99	96	93		95	92	90		91	89	87	85
2	100	93	86	81	98	91	85	80	87	82	78		84	80	76		81	78	75	72
3	92	82	74	68	89	80	73	67	77	71	66		75	70	65		72	68	64	62
4	84	73	65	58	82	72	64	58	69	62	57		67	61	56		65	60	56	53
5	78	66	57	51	76	64	56	50	62	55	50		60	54	49		59	53	49	47
6	72	59	51	44	70	58	50	44	57	49	44		55	48	43		53	48	43	41
7	67	54	45	39	65	53	45	39	52	44	39		50	44	39		49	43	38	36
8	62	49	41	35	61	49	41	35	47	40	35		46	40	35		45	39	35	33
9	58	45	37	32	57	45	37	32	44	37	32		42	36	31		41	36	31	29
10	55	42	34	29	53	41	34	29	40	33	29		39	33	29		38	33	28	27

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

	0°	45°	90°
0°	5018	5018	5018
5°	5041	5020	5028
10°	5040	5015	5027
15°	5032	5010	5019
20°	5016	4991	4995
25°	4975	4960	4963
30°	4937	4909	4909
35°	4868	4839	4844
40°	4758	4718	4698
45°	4568	4495	4471
50°	4217	4156	4117
55°	3754	3700	3676
60°	3272	3236	3202
65°	2867	2870	2854
70°	2580	2572	2535
75°	2403	2333	2338
80°	2146	2106	2106
85°	1655	1704	1639



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	331.9	3.7
10°-20°	953.2	10.7
20°-30°	1445.1	16.2
30°-40°	1728.4	19.4
40°-50°	1706.6	19.1
50°-60°	1328.3	14.9
60°-70°	843.2	9.5
70°-80°	452.5	5.1
80°-90°	122.7	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°	2730.2	30.6
0°-40°	4458.6	50.0
0°-60°	7493.5	84.1
0°-90°	8912.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8912.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3499	3499	3499	3499	3499	
5°	3502	3492	3488	3486	3494	333
15°	3390	3378	3375	3371	3381	957
25°	3145	3139	3135	3129	3137	1451
35°	2781	2776	2765	2756	2768	1739
45°	2253	2237	2217	2206	2205	1729
55°	1502	1494	1480	1470	1470	1345
65°	845	848	846	835	841	848
75°	434	427	421	420	422	459
85°	101	103	104	104	100	124
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3499.4	3499.4	3499.4	3499.4	3499.4
2.5°	3511.1	3499.4	3495.5	3493.5	3502.3
5°	3502.3	3491.6	3487.6	3485.7	3493.5
7.5°	3487.6	3474.9	3471.0	3469.1	3477.9
10°	3461.3	3449.5	3444.7	3444.7	3452.5
12.5°	3430.0	3420.2	3415.4	3411.4	3420.2
15°	3390.0	3378.2	3375.3	3371.4	3381.2
17.5°	3342.1	3330.4	3326.5	3324.5	3331.3
20°	3287.4	3272.7	3270.8	3269.8	3273.7
22.5°	3220.0	3212.2	3208.2	3206.3	3209.2
25°	3144.7	3138.9	3135.0	3129.1	3136.9
27.5°	3071.5	3063.7	3053.9	3049.0	3053.9
30°	2981.6	2971.8	2965.0	2963.0	2965.0
32.5°	2888.8	2879.0	2870.2	2869.2	2868.3
35°	2781.3	2775.5	2764.7	2755.9	2767.6
37.5°	2674.8	2661.2	2651.4	2640.6	2637.7
40°	2542.0	2537.1	2520.5	2510.7	2509.7
42.5°	2413.0	2390.6	2378.8	2372.0	2361.2
45°	2252.8	2237.2	2216.7	2205.9	2204.9
47.5°	2085.8	2066.2	2046.7	2032.0	2035.9
50°	1890.4	1881.6	1863.0	1850.3	1845.4
52.5°	1689.1	1687.2	1667.6	1659.8	1651.0
55°	1501.5	1493.7	1480.1	1470.3	1470.3
57.5°	1316.9	1310.1	1303.2	1284.7	1284.7
60°	1141.1	1140.1	1128.4	1117.6	1116.6
62.5°	983.8	989.6	978.9	968.1	962.3
65°	845.0	848.0	846.0	835.3	841.1
67.5°	722.9	723.9	720.0	714.1	718.0
70°	615.5	620.4	613.5	609.6	604.7
72.5°	521.7	519.7	513.9	516.8	510.0
75°	433.8	426.9	421.1	420.1	422.0
77.5°	345.8	343.9	339.0	339.0	336.1
80°	259.9	257.9	255.0	256.0	255.0
82.5°	184.6	179.8	175.8	177.8	178.8
85°	100.6	102.6	103.6	103.6	99.6
87.5°	41.0	40.1	41.0	43.0	44.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)