

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: P738575

Luminaire Tested: **24PT-50-PR1-L830**

Issue Date: 2/8/2024



**Test Information**

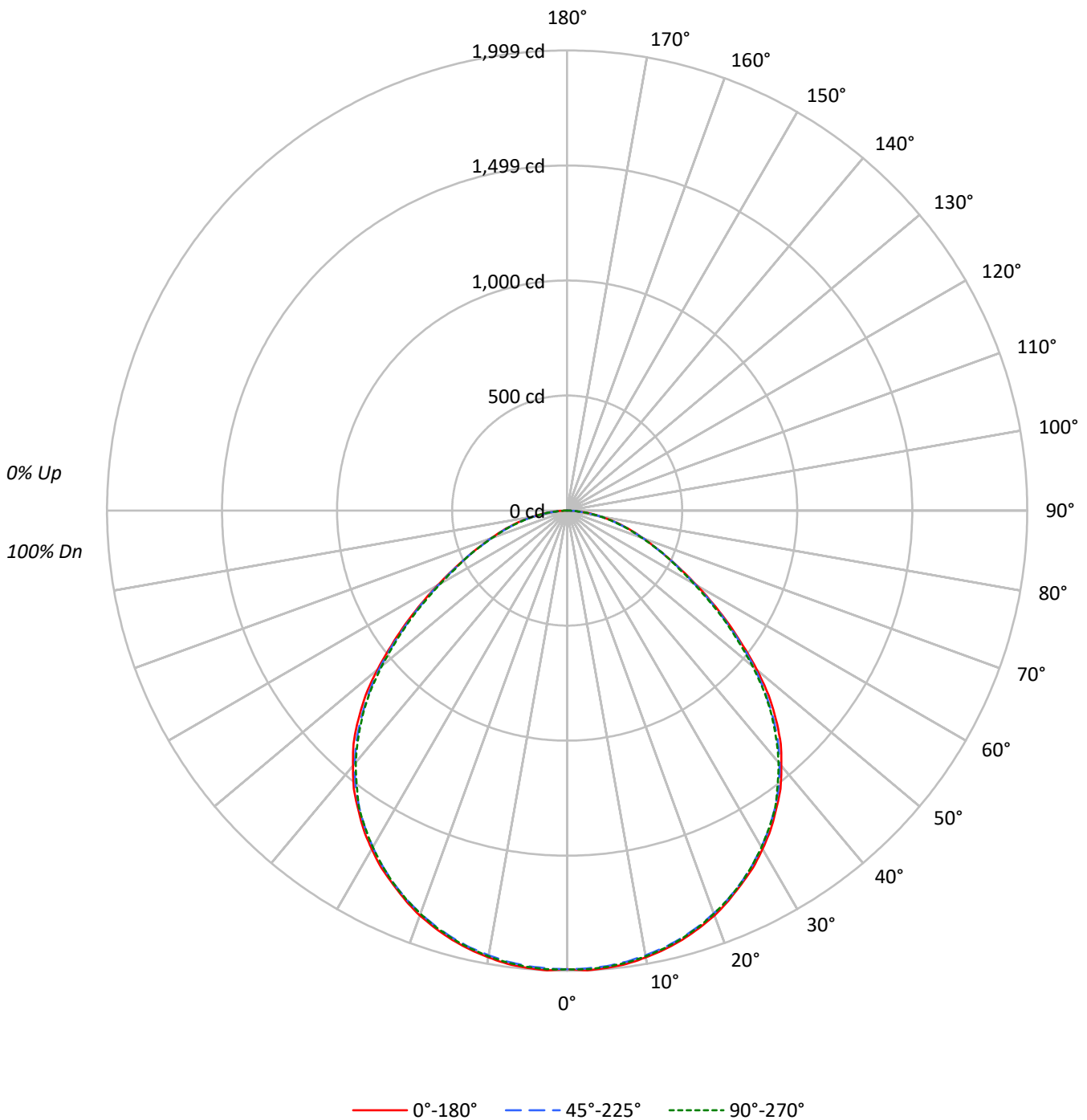
Test Method: LM-79-08  
Report Number: P738575  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2210-816-15)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/8/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 24PT-50-PR1-L830  
Description: 5000 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: 5075.0 lumens  
Efficiency: N/A  
Efficacy: 123.8 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): 41  
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	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°	2857	2857	2857
5°	2871	2859	2863
10°	2870	2856	2862
15°	2866	2853	2858
20°	2856	2842	2845
25°	2833	2824	2826
30°	2811	2795	2795
35°	2772	2756	2759
40°	2709	2687	2675
45°	2601	2560	2546
50°	2401	2367	2344
55°	2138	2107	2093
60°	1863	1843	1824
65°	1633	1635	1625
70°	1469	1465	1444
75°	1368	1328	1331
80°	1222	1199	1199
85°	943	971	933



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	189.0	3.7
10°-20°	542.8	10.7
20°-30°	822.9	16.2
30°-40°	984.3	19.4
40°-50°	971.8	19.1
50°-60°	756.4	14.9
60°-70°	480.2	9.5
70°-80°	257.7	5.1
80°-90°	69.9	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°	1554.7	30.6
0°-40°	2539.0	50.0
0°-60°	4267.2	84.1
0°-90°	5075.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5075.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1993	1993	1993	1993	1993	
5°	1994	1988	1986	1985	1989	190
15°	1930	1924	1922	1920	1925	545
25°	1791	1788	1785	1782	1786	826
35°	1584	1580	1574	1569	1576	990
45°	1283	1274	1262	1256	1256	985
55°	855	851	843	837	837	766
65°	481	483	482	476	479	483
75°	247	243	240	239	240	261
85°	57	58	59	59	57	71
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1992.7	1992.7	1992.7	1992.7	1992.7
2.5°	1999.4	1992.7	1990.5	1989.4	1994.4
5°	1994.4	1988.3	1986.1	1985.0	1989.4
7.5°	1986.1	1978.8	1976.6	1975.5	1980.5
10°	1971.0	1964.4	1961.6	1961.6	1966.0
12.5°	1953.2	1947.7	1944.9	1942.7	1947.7
15°	1930.4	1923.8	1922.1	1919.9	1925.4
17.5°	1903.2	1896.5	1894.3	1893.2	1897.1
20°	1872.0	1863.7	1862.6	1862.0	1864.2
22.5°	1833.6	1829.2	1827.0	1825.8	1827.5
25°	1790.8	1787.5	1785.2	1781.9	1786.3
27.5°	1749.1	1744.6	1739.1	1736.3	1739.1
30°	1697.9	1692.3	1688.4	1687.3	1688.4
32.5°	1645.0	1639.5	1634.5	1633.9	1633.4
35°	1583.8	1580.5	1574.4	1569.4	1576.1
37.5°	1523.2	1515.4	1509.9	1503.7	1502.1
40°	1447.5	1444.8	1435.3	1429.7	1429.2
42.5°	1374.1	1361.3	1354.6	1350.7	1344.6
45°	1282.9	1274.0	1262.3	1256.2	1255.6
47.5°	1187.7	1176.6	1165.5	1157.1	1159.4
50°	1076.5	1071.5	1060.9	1053.7	1050.9
52.5°	961.9	960.8	949.6	945.2	940.2
55°	855.1	850.6	842.8	837.3	837.3
57.5°	749.9	746.0	742.1	731.6	731.6
60°	649.8	649.2	642.6	636.4	635.9
62.5°	560.2	563.6	557.4	551.3	548.0
65°	481.2	482.9	481.8	475.7	479.0
67.5°	411.7	412.2	410.0	406.7	408.9
70°	350.5	353.3	349.4	347.1	344.4
72.5°	297.1	296.0	292.6	294.3	290.4
75°	247.0	243.1	239.8	239.2	240.3
77.5°	196.9	195.8	193.0	193.0	191.4
80°	148.0	146.9	145.2	145.8	145.2
82.5°	105.1	102.4	100.1	101.3	101.8
85°	57.3	58.4	59.0	59.0	56.7
87.5°	23.4	22.8	23.4	24.5	25.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)