

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: P738584

Luminaire Tested: **24PT-50-PW1-L835**

Issue Date: 2/8/2024



**Test Information**

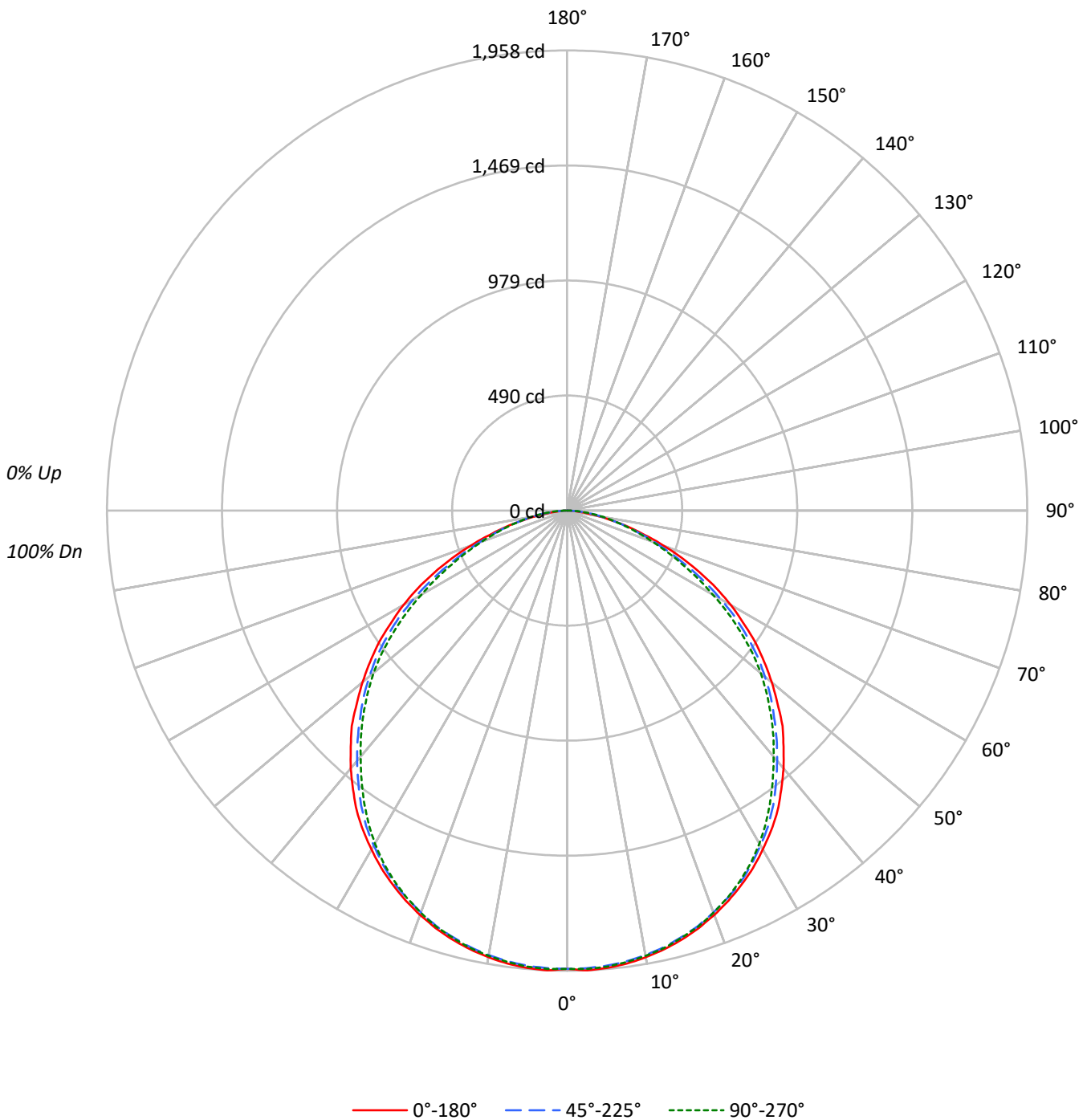
Test Method: LM-79-08  
Report Number: P738584  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2210-816-13)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/8/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 24PT-50-PW1-L835  
Description: 5000 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: 5200.0 lumens  
Efficiency: N/A  
Efficacy: 126.8 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): 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	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°	2796	2796	2796
5°	2812	2798	2804
10°	2810	2797	2802
15°	2805	2790	2793
20°	2793	2777	2779
25°	2779	2762	2752
30°	2757	2725	2708
35°	2732	2676	2639
40°	2682	2602	2559
45°	2628	2527	2485
50°	2535	2450	2398
55°	2443	2338	2254
60°	2309	2167	2055
65°	2114	1930	1831
70°	1832	1674	1612
75°	1499	1443	1424
80°	1094	1234	1271
85°	732	1030	1094



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	185.0	3.6
10°-20°	531.0	10.2
20°-30°	803.6	15.5
30°-40°	956.2	18.4
40°-50°	965.9	18.6
50°-60°	835.8	16.1
60°-70°	570.9	11.0
70°-80°	281.4	5.4
80°-90°	70.3	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°	1519.6	29.2
0°-40°	2475.8	47.6
0°-60°	4277.4	82.3
0°-90°	5200.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5200.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1950	1950	1950	1950	1950	
5°	1954	1946	1944	1942	1948	186
15°	1889	1883	1879	1878	1881	533
25°	1756	1750	1746	1739	1739	809
35°	1561	1548	1529	1512	1508	974
45°	1296	1274	1246	1232	1226	995
55°	977	964	935	916	902	870
65°	623	599	569	550	540	615
75°	271	263	260	259	257	289
85°	44	55	63	65	66	57
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1950.2	1950.2	1950.2	1950.2	1950.2
2.5°	1958.1	1950.8	1948.5	1946.8	1951.9
5°	1953.6	1946.3	1944.0	1942.3	1947.9
7.5°	1944.0	1936.7	1934.4	1932.7	1937.2
10°	1929.9	1923.1	1920.9	1919.2	1924.3
12.5°	1911.9	1905.7	1902.8	1900.6	1906.2
15°	1889.3	1883.1	1879.2	1878.0	1881.4
17.5°	1862.2	1856.0	1853.2	1851.5	1855.5
20°	1830.7	1823.9	1820.0	1817.7	1821.1
22.5°	1795.7	1789.0	1783.9	1781.6	1782.8
25°	1756.3	1749.5	1746.1	1739.3	1739.3
27.5°	1714.0	1706.1	1697.6	1690.3	1690.9
30°	1664.9	1655.9	1645.7	1636.2	1635.6
32.5°	1615.3	1604.0	1591.6	1578.7	1574.7
35°	1560.6	1547.6	1529.0	1512.1	1507.6
37.5°	1496.3	1484.5	1459.7	1445.6	1438.3
40°	1432.6	1415.7	1390.3	1374.0	1367.2
42.5°	1362.7	1346.4	1319.3	1304.1	1298.4
45°	1296.2	1274.2	1246.0	1231.9	1225.7
47.5°	1213.3	1195.3	1175.5	1159.2	1151.3
50°	1136.6	1122.0	1098.3	1080.3	1075.2
52.5°	1056.6	1044.2	1021.6	997.9	992.3
55°	977.1	963.5	935.4	915.6	901.5
57.5°	887.4	875.6	849.1	823.7	811.3
60°	805.1	784.8	755.5	727.9	716.6
62.5°	715.5	695.7	661.9	633.7	627.5
65°	623.0	599.3	568.9	550.3	539.6
67.5°	529.4	506.3	480.9	469.1	462.3
70°	436.9	418.3	399.2	390.7	384.5
72.5°	347.9	337.2	326.4	323.1	317.4
75°	270.6	262.7	260.5	258.8	257.1
77.5°	195.1	199.0	201.3	203.5	201.3
80°	132.5	141.0	149.4	153.9	153.9
82.5°	81.8	96.4	103.7	108.3	107.7
85°	44.5	55.3	62.6	64.8	66.5
87.5°	18.0	22.6	25.4	27.6	28.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)