

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: P738544

Luminaire Tested: **24PT-45-PR1-L835**

Issue Date: 2/8/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P738544  
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-45-PR1-L835  
Description: 4500 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3500K, 80 CRI LEDS AND RIPPLE LENS  
  
Light Source: -  
Ballast/Driver: -

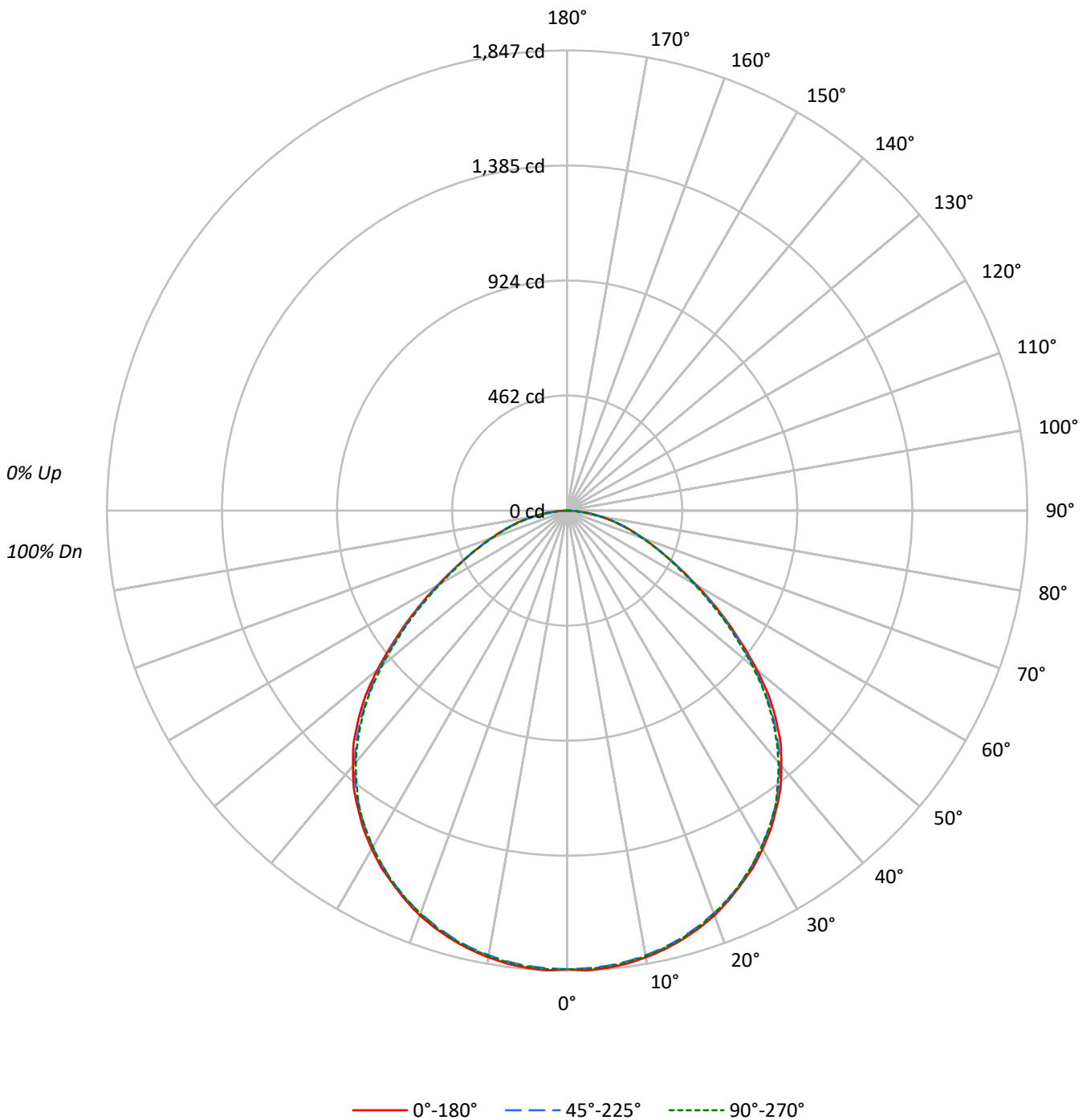
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4688.0 lumens  
Efficiency: N/A  
Efficacy: 126.0 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): 37.2  
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°	2639	2639	2639
5°	2652	2641	2645
10°	2651	2638	2644
15°	2647	2636	2640
20°	2639	2625	2628
25°	2617	2609	2611
30°	2597	2582	2582
35°	2561	2546	2548
40°	2503	2482	2471
45°	2403	2364	2352
50°	2218	2186	2166
55°	1975	1946	1933
60°	1721	1702	1684
65°	1508	1510	1501
70°	1357	1353	1334
75°	1264	1227	1230
80°	1129	1107	1107
85°	870	897	862



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	174.6	3.7
10°-20°	501.4	10.7
20°-30°	760.2	16.2
30°-40°	909.2	19.4
40°-50°	897.7	19.1
50°-60°	698.7	14.9
60°-70°	443.6	9.5
70°-80°	238.0	5.1
80°-90°	64.6	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°	1436.2	30.6
0°-40°	2345.4	50.0
0°-60°	3941.8	84.1
0°-90°	4688.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4688.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1841	1841	1841	1841	1841	
5°	1842	1837	1835	1834	1838	175
15°	1783	1777	1776	1774	1779	503
25°	1654	1651	1649	1646	1650	763
35°	1463	1460	1454	1450	1456	915
45°	1185	1177	1166	1160	1160	910
55°	790	786	779	773	773	707
65°	444	446	445	439	442	446
75°	228	225	222	221	222	241
85°	53	54	54	54	52	65
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1840.8	1840.8	1840.8	1840.8	1840.8
2.5°	1846.9	1840.8	1838.7	1837.7	1842.3
5°	1842.3	1836.7	1834.6	1833.6	1837.7
7.5°	1834.6	1827.9	1825.9	1824.9	1829.5
10°	1820.7	1814.6	1812.0	1812.0	1816.1
12.5°	1804.3	1799.2	1796.6	1794.5	1799.2
15°	1783.2	1777.1	1775.5	1773.5	1778.6
17.5°	1758.0	1751.9	1749.8	1748.8	1752.4
20°	1729.3	1721.6	1720.5	1720.0	1722.1
22.5°	1693.8	1689.7	1687.6	1686.6	1688.2
25°	1654.2	1651.2	1649.1	1646.0	1650.1
27.5°	1615.7	1611.6	1606.4	1603.9	1606.4
30°	1568.4	1563.3	1559.7	1558.7	1559.7
32.5°	1519.6	1514.5	1509.8	1509.3	1508.8
35°	1463.1	1460.0	1454.3	1449.7	1455.9
37.5°	1407.1	1399.9	1394.7	1389.1	1387.5
40°	1337.2	1334.6	1325.9	1320.7	1320.2
42.5°	1269.3	1257.5	1251.3	1247.7	1242.1
45°	1185.0	1176.8	1166.0	1160.4	1159.9
47.5°	1097.2	1086.9	1076.6	1068.9	1071.0
50°	994.4	989.8	980.0	973.3	970.8
52.5°	888.5	887.5	877.2	873.1	868.5
55°	789.9	785.7	778.6	773.4	773.4
57.5°	692.7	689.1	685.5	675.8	675.8
60°	600.2	599.7	593.6	587.9	587.4
62.5°	517.5	520.6	514.9	509.3	506.2
65°	444.5	446.1	445.0	439.4	442.5
67.5°	380.3	380.8	378.7	375.7	377.7
70°	323.8	326.3	322.7	320.7	318.1
72.5°	274.4	273.4	270.3	271.9	268.3
75°	228.2	224.6	221.5	221.0	222.0
77.5°	181.9	180.9	178.3	178.3	176.8
80°	136.7	135.7	134.1	134.6	134.1
82.5°	97.1	94.6	92.5	93.5	94.0
85°	52.9	54.0	54.5	54.5	52.4
87.5°	21.6	21.1	21.6	22.6	23.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)