

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: P738545

Luminaire Tested: **24PT-45-PR1-L840**

Issue Date: 2/8/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P738545  
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-L840  
Description: 4500 LUMEN 2X4 PERCEIVE PT TROFFER WITH 4000K, 80 CRI LEDS AND RIPPLE LENS

Light Source: -  
Ballast/Driver: -

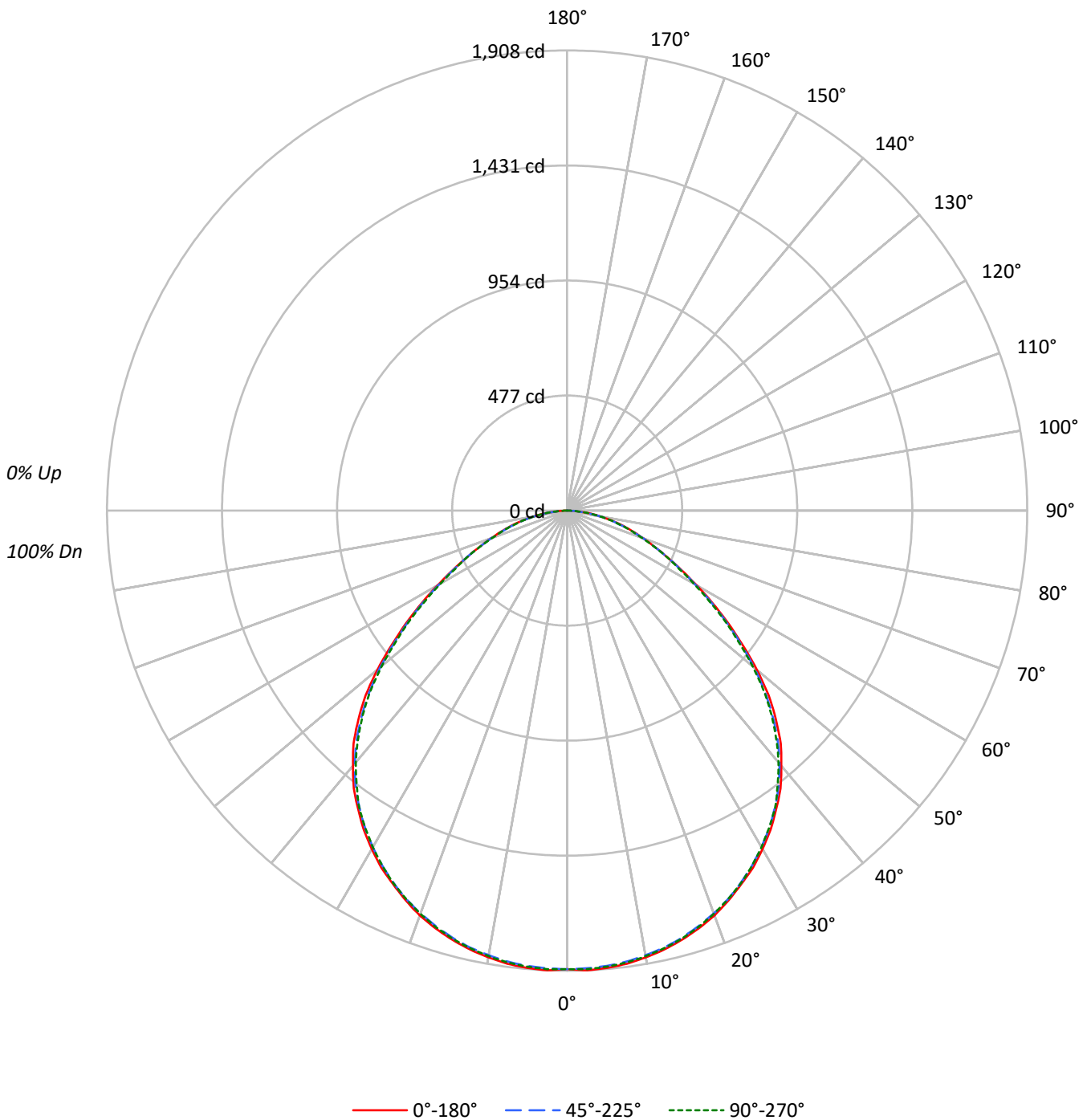
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4843.0 lumens  
Efficiency: N/A  
Efficacy: 130.2 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

TEST NUMBER: P738545  
CATALOG NUMBER: 24PT-45-PR1-L840

### Luminous Intensity Polar Plot





TEST NUMBER: P738545

CATALOG NUMBER: 24PT-45-PR1-L840

**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°	2727	2727	2727
5°	2739	2728	2733
10°	2739	2725	2732
15°	2735	2723	2728
20°	2726	2712	2715
25°	2704	2695	2697
30°	2683	2668	2668
35°	2646	2630	2633
40°	2586	2564	2553
45°	2482	2443	2430
50°	2292	2258	2237
55°	2040	2011	1997
60°	1778	1758	1740
65°	1558	1560	1551
70°	1402	1398	1378
75°	1306	1268	1270
80°	1166	1144	1144
85°	900	926	892



TEST NUMBER: P738545

CATALOG NUMBER: 24PT-45-PR1-L840

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	180.4	3.7
10°-20°	518.0	10.7
20°-30°	785.3	16.2
30°-40°	939.3	19.4
40°-50°	927.4	19.1
50°-60°	721.8	14.9
60°-70°	458.2	9.5
70°-80°	245.9	5.1
80°-90°	66.7	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°	1483.7	30.6
0°-40°	2422.9	50.0
0°-60°	4072.1	84.1
0°-90°	4843.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4843.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1902	1902	1902	1902	1902	
5°	1903	1897	1895	1894	1898	181
15°	1842	1836	1834	1832	1837	520
25°	1709	1706	1704	1700	1705	788
35°	1511	1508	1502	1498	1504	945
45°	1224	1216	1205	1199	1198	940
55°	816	812	804	799	799	731
65°	459	461	460	454	457	461
75°	236	232	229	228	229	249
85°	55	56	56	56	54	67
90°	0	0	0	0	0	



TEST NUMBER: P738545

CATALOG NUMBER: 24PT-45-PR1-L840

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1901.6	1901.6	1901.6	1901.6	1901.6
2.5°	1908.0	1901.6	1899.5	1898.5	1903.2
5°	1903.2	1897.4	1895.3	1894.2	1898.5
7.5°	1895.3	1888.4	1886.2	1885.2	1890.0
10°	1880.9	1874.6	1871.9	1871.9	1876.2
12.5°	1864.0	1858.6	1856.0	1853.9	1858.6
15°	1842.2	1835.8	1834.2	1832.1	1837.4
17.5°	1816.2	1809.8	1807.7	1806.6	1810.3
20°	1786.4	1778.5	1777.4	1776.9	1779.0
22.5°	1749.8	1745.6	1743.4	1742.4	1744.0
25°	1708.9	1705.7	1703.6	1700.4	1704.7
27.5°	1669.1	1664.9	1659.6	1656.9	1659.6
30°	1620.3	1615.0	1611.2	1610.2	1611.2
32.5°	1569.8	1564.5	1559.8	1559.2	1558.7
35°	1511.4	1508.3	1502.4	1497.6	1504.0
37.5°	1453.6	1446.1	1440.8	1435.0	1433.4
40°	1381.4	1378.7	1369.7	1364.4	1363.9
42.5°	1311.3	1299.1	1292.7	1289.0	1283.2
45°	1224.2	1215.7	1204.6	1198.7	1198.2
47.5°	1133.4	1122.8	1112.2	1104.2	1106.4
50°	1027.3	1022.5	1012.4	1005.5	1002.8
52.5°	917.9	916.8	906.2	902.0	897.2
55°	816.0	811.7	804.3	799.0	799.0
57.5°	715.6	711.9	708.2	698.1	698.1
60°	620.1	619.5	613.2	607.3	606.8
62.5°	534.6	537.8	532.0	526.1	522.9
65°	459.2	460.8	459.7	453.9	457.1
67.5°	392.9	393.4	391.3	388.1	390.2
70°	334.5	337.1	333.4	331.3	328.6
72.5°	283.5	282.4	279.2	280.8	277.1
75°	235.7	232.0	228.8	228.3	229.3
77.5°	187.9	186.9	184.2	184.2	182.6
80°	141.2	140.2	138.6	139.1	138.6
82.5°	100.3	97.7	95.6	96.6	97.2
85°	54.7	55.7	56.3	56.3	54.2
87.5°	22.3	21.8	22.3	23.4	23.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)