

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: P738573

Luminaire Tested: **24PT-50-PL1-L940**

Issue Date: 2/8/2024



Test Information

Test Method: LM-79-08
Report Number: P738573
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2210-816-14)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/8/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 24PT-50-PL1-L940
Description: 5000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 4000K, 90 CRI LEDS AND LEAVES LENS

Light Source: -
Ballast/Driver: -

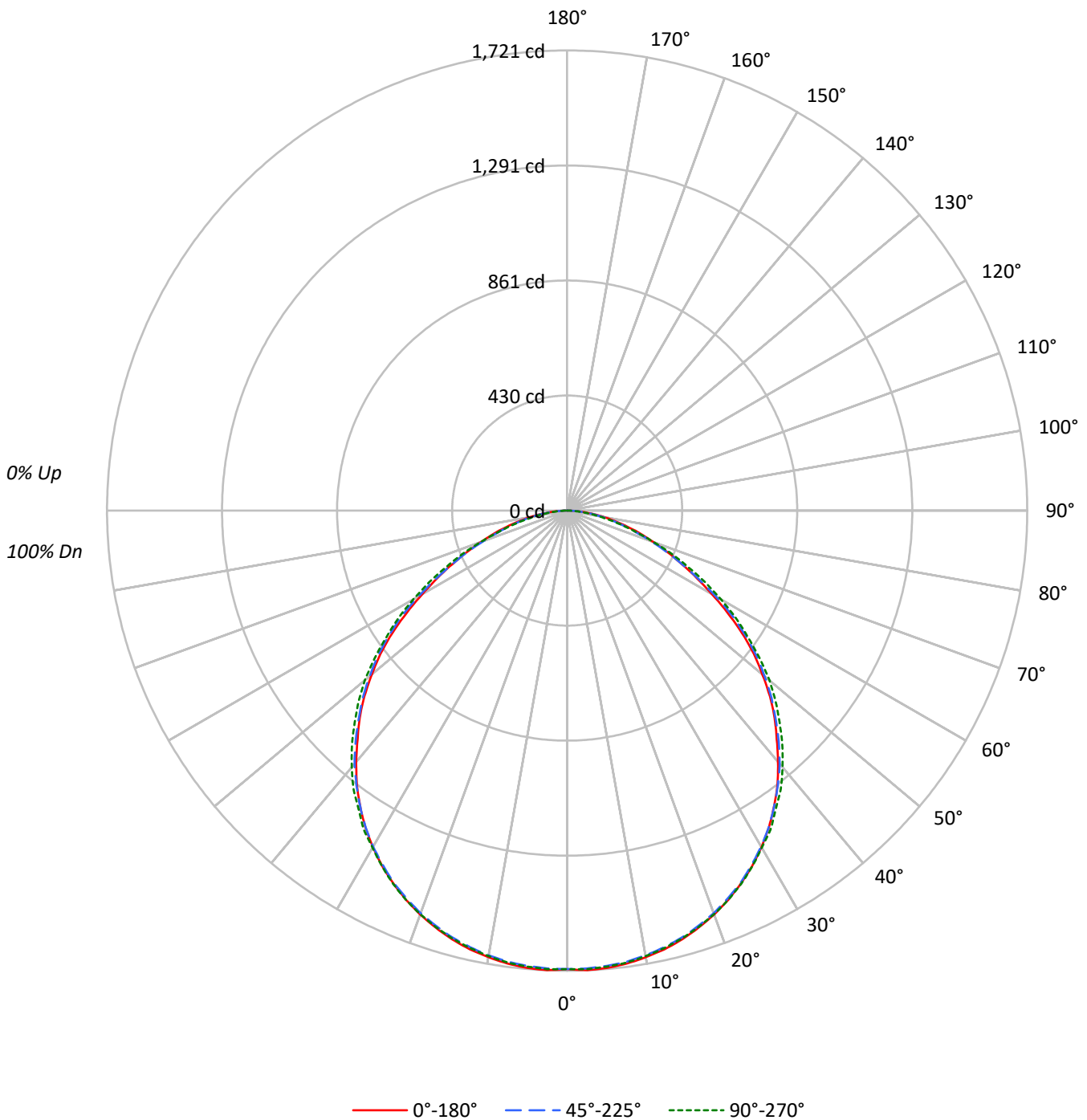
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4539.0 lumens
Efficiency: N/A
Efficacy: 110.7 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): 41
Input Voltage (V): NR
Input Current (A_{in}): 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: P738573
CATALOG NUMBER: 24PT-50-PL1-L940

Luminous Intensity Polar Plot





TEST NUMBER: P738573

CATALOG NUMBER: 24PT-50-PL1-L940

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	96	98	95	93	95	92	90	91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77	83	79	76	80	77	74	72
3	91	81	73	67	89	80	72	67	77	70	65	74	69	64	71	67	63	61
4	84	72	64	57	82	71	63	57	68	62	56	66	60	55	64	59	55	52
5	77	65	56	49	75	64	55	49	61	54	49	60	53	48	58	52	48	46
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	47	42	40
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	32
9	58	44	36	31	56	44	36	31	43	36	31	42	35	30	41	35	30	29
10	54	41	33	28	53	40	33	28	40	33	28	39	32	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2459	2459	2459
5°	2471	2460	2464
10°	2469	2459	2464
15°	2465	2455	2460
20°	2453	2445	2451
25°	2435	2429	2437
30°	2406	2403	2411
35°	2362	2363	2381
40°	2297	2315	2346
45°	2226	2236	2280
50°	2127	2151	2202
55°	1996	2033	2064
60°	1792	1836	1904
65°	1604	1607	1694
70°	1430	1391	1440
75°	1291	1215	1193
80°	1148	1070	945
85°	941	892	739



TEST NUMBER: P738573

CATALOG NUMBER: 24PT-50-PL1-L940

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.7	3.6
10°-20°	467.1	10.3
20°-30°	707.6	15.6
30°-40°	845.6	18.6
40°-50°	853.0	18.8
50°-60°	723.7	15.9
60°-70°	478.8	10.5
70°-80°	237.6	5.2
80°-90°	62.9	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°	1337.3	29.5
0°-40°	2182.9	48.1
0°-60°	3759.7	82.8
0°-90°	4539.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4539.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1715	1715	1715	1715	1715	
5°	1717	1711	1709	1708	1712	163
15°	1661	1655	1654	1654	1657	468
25°	1539	1535	1535	1535	1540	709
35°	1350	1348	1350	1358	1360	843
45°	1098	1096	1103	1117	1124	844
55°	798	800	813	821	826	710
65°	473	472	474	488	499	472
75°	233	227	219	212	215	250
85°	57	57	54	50	45	68
90°	0	0	0	0	0	



TEST NUMBER: P738573

CATALOG NUMBER: 24PT-50-PL1-L940

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1714.8	1714.8	1714.8	1714.8	1714.8
2.5°	1720.7	1715.3	1713.8	1712.8	1716.8
5°	1716.8	1710.9	1709.4	1708.4	1711.9
7.5°	1708.9	1702.5	1701.5	1700.5	1705.0
10°	1696.1	1690.2	1689.2	1688.2	1692.1
12.5°	1680.8	1674.9	1672.9	1673.4	1675.9
15°	1660.6	1655.2	1653.7	1653.7	1657.1
17.5°	1635.5	1630.5	1629.5	1629.0	1633.5
20°	1607.4	1602.4	1602.4	1603.9	1606.4
22.5°	1575.3	1571.9	1569.9	1570.9	1575.8
25°	1538.8	1535.4	1535.4	1534.9	1540.3
27.5°	1498.4	1494.0	1494.0	1497.9	1499.9
30°	1453.1	1449.1	1451.1	1454.1	1456.0
32.5°	1404.3	1401.8	1403.3	1407.7	1415.6
35°	1349.6	1347.6	1350.1	1357.5	1360.4
37.5°	1292.4	1290.9	1294.4	1304.2	1312.6
40°	1227.3	1227.3	1236.7	1245.6	1253.5
42.5°	1159.8	1164.2	1171.1	1184.9	1191.8
45°	1097.7	1096.2	1102.6	1117.4	1124.3
47.5°	1028.7	1027.2	1036.6	1046.9	1058.3
50°	953.3	952.8	964.1	973.0	987.3
52.5°	879.8	884.3	891.7	899.6	907.9
55°	798.5	800.5	813.3	820.7	825.6
57.5°	710.8	717.2	732.9	743.8	748.2
60°	625.0	628.9	640.3	659.5	663.9
62.5°	547.1	548.6	555.5	577.2	583.1
65°	472.7	471.7	473.7	488.5	499.3
67.5°	405.2	401.2	401.2	409.1	422.4
70°	341.1	335.2	331.7	334.2	343.6
72.5°	287.4	279.5	270.6	269.1	275.0
75°	233.1	226.7	219.3	212.4	215.4
77.5°	185.8	180.4	173.5	165.6	161.7
80°	139.0	137.0	129.6	122.2	114.4
82.5°	97.1	95.6	90.7	84.8	79.9
85°	57.2	57.2	54.2	49.8	44.9
87.5°	25.6	24.6	25.6	21.7	20.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)