

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: P738553

Luminaire Tested: **24PT-45-PW1-L840**

Issue Date: 2/8/2024



Test Information

Test Method: LM-79-08
Report Number: P738553
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-45-PW1-L840
Description: 4500 LUMEN 2X4 PERCEIVE PT TROFFER WITH 4000K, 80 CRI LEDS AND WAVES LENS

Light Source: -
Ballast/Driver: -

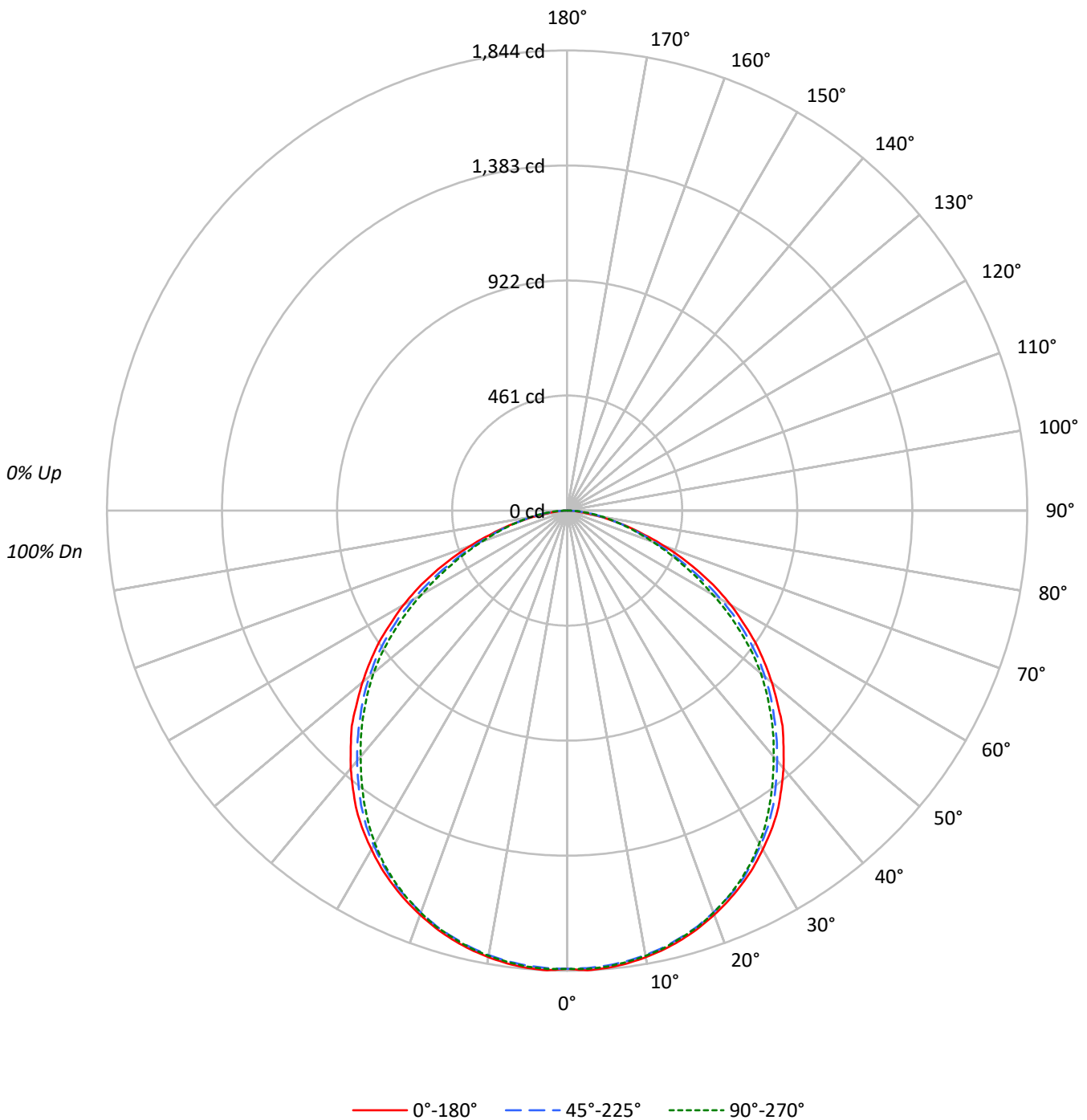
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4897.0 lumens
Efficiency: N/A
Efficacy: 131.6 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): 37.2
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

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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°	2633	2633	2633
5°	2648	2635	2640
10°	2646	2634	2638
15°	2641	2627	2630
20°	2631	2615	2617
25°	2617	2602	2591
30°	2596	2566	2550
35°	2573	2520	2485
40°	2525	2451	2410
45°	2475	2379	2341
50°	2388	2307	2259
55°	2300	2202	2122
60°	2174	2040	1935
65°	1991	1818	1724
70°	1725	1576	1518
75°	1412	1359	1341
80°	1031	1162	1196
85°	689	969	1032



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.2	3.6
10°-20°	500.0	10.2
20°-30°	756.8	15.5
30°-40°	900.5	18.4
40°-50°	909.6	18.6
50°-60°	787.1	16.1
60°-70°	537.7	11.0
70°-80°	264.9	5.4
80°-90°	66.2	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°	1431.0	29.2
0°-40°	2331.5	47.6
0°-60°	4028.2	82.3
0°-90°	4897.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4897.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1837	1837	1837	1837	1837	
5°	1840	1833	1831	1829	1834	175
15°	1779	1773	1770	1769	1772	502
25°	1654	1648	1644	1638	1638	762
35°	1470	1458	1440	1424	1420	917
45°	1221	1200	1173	1160	1154	937
55°	920	907	881	862	849	819
65°	587	564	536	518	508	579
75°	255	247	245	244	242	272
85°	42	52	59	61	63	54
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1836.6	1836.6	1836.6	1836.6	1836.6
2.5°	1844.0	1837.1	1835.0	1833.4	1838.2
5°	1839.7	1832.8	1830.7	1829.1	1834.4
7.5°	1830.7	1823.8	1821.7	1820.1	1824.4
10°	1817.4	1811.1	1809.0	1807.4	1812.1
12.5°	1800.5	1794.6	1792.0	1789.8	1795.1
15°	1779.2	1773.4	1769.7	1768.6	1771.8
17.5°	1753.7	1747.9	1745.2	1743.6	1747.4
20°	1724.0	1717.6	1713.9	1711.8	1715.0
22.5°	1691.1	1684.7	1679.9	1677.8	1678.9
25°	1653.9	1647.5	1644.4	1638.0	1638.0
27.5°	1614.1	1606.7	1598.7	1591.8	1592.3
30°	1567.9	1559.4	1549.8	1540.8	1540.3
32.5°	1521.2	1510.6	1498.9	1486.7	1482.9
35°	1469.7	1457.5	1439.9	1424.0	1419.8
37.5°	1409.1	1398.0	1374.6	1361.4	1354.5
40°	1349.1	1333.2	1309.3	1293.9	1287.6
42.5°	1283.3	1267.9	1242.4	1228.1	1222.8
45°	1220.7	1200.0	1173.4	1160.1	1154.3
47.5°	1142.6	1125.6	1107.0	1091.6	1084.2
50°	1070.4	1056.6	1034.3	1017.3	1012.5
52.5°	995.0	983.3	962.1	939.8	934.5
55°	920.1	907.4	880.8	862.3	849.0
57.5°	835.7	824.6	799.6	775.7	764.0
60°	758.2	739.1	711.5	685.5	674.8
62.5°	673.8	655.2	623.3	596.8	590.9
65°	586.7	564.4	535.7	518.2	508.1
67.5°	498.6	476.8	452.9	441.8	435.4
70°	411.5	394.0	375.9	367.9	362.1
72.5°	327.6	317.5	307.4	304.2	298.9
75°	254.9	247.4	245.3	243.7	242.1
77.5°	183.7	187.4	189.5	191.7	189.5
80°	124.8	132.7	140.7	144.9	144.9
82.5°	77.0	90.8	97.7	101.9	101.4
85°	41.9	52.0	58.9	61.1	62.7
87.5°	17.0	21.2	23.9	26.0	27.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)