

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: P738554

Luminaire Tested: **24PT-45-PW1-L850**

Issue Date: 2/8/2024



Test Information

Test Method: LM-79-08
Report Number: P738554
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-L850
Description: 4500 LUMEN 2X4 PERCEIVE PT TROFFER WITH 5000K, 80 CRI LEDS AND WAVES LENS

Light Source: -
Ballast/Driver: -

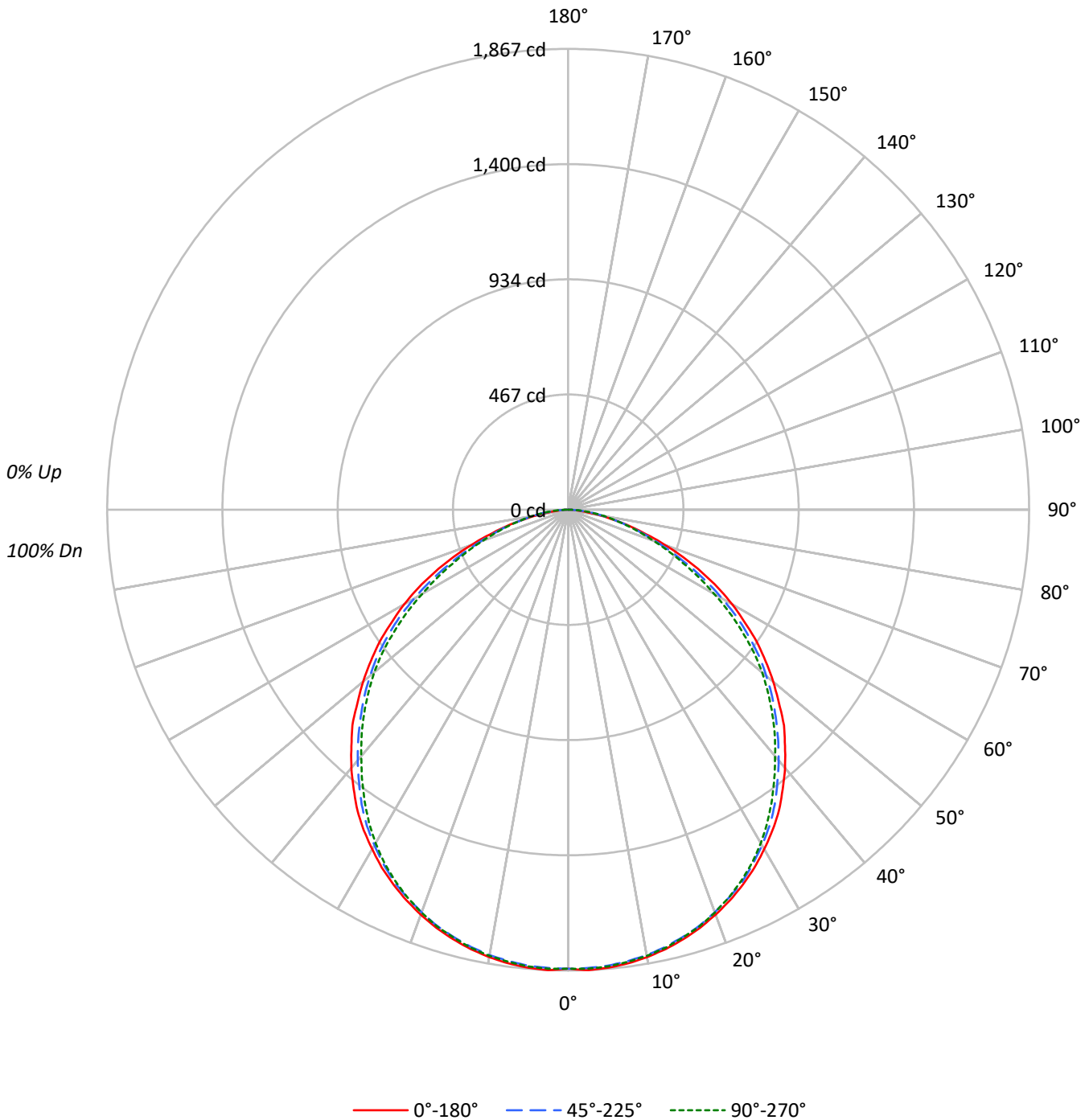
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4959.0 lumens
Efficiency: N/A
Efficacy: 133.3 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°	2667	2667	2667
5°	2681	2668	2674
10°	2680	2667	2672
15°	2675	2660	2663
20°	2664	2648	2650
25°	2650	2634	2624
30°	2629	2599	2583
35°	2605	2552	2517
40°	2557	2482	2441
45°	2507	2410	2370
50°	2418	2336	2287
55°	2329	2230	2149
60°	2202	2066	1960
65°	2016	1841	1746
70°	1747	1596	1537
75°	1430	1376	1358
80°	1044	1177	1212
85°	699	982	1043



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.4	3.6
10°-20°	506.4	10.2
20°-30°	766.4	15.5
30°-40°	911.9	18.4
40°-50°	921.1	18.6
50°-60°	797.0	16.1
60°-70°	544.5	11.0
70°-80°	268.3	5.4
80°-90°	67.0	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°	1449.1	29.2
0°-40°	2361.0	47.6
0°-60°	4079.2	82.3
0°-90°	4959.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4959.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1860	1860	1860	1860	1860	
5°	1863	1856	1854	1852	1858	177
15°	1802	1796	1792	1791	1794	508
25°	1675	1668	1665	1659	1659	772
35°	1488	1476	1458	1442	1438	929
45°	1236	1215	1188	1175	1169	949
55°	932	919	892	873	860	830
65°	594	572	542	525	515	587
75°	258	251	248	247	245	276
85°	42	53	60	62	63	55
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1859.8	1859.8	1859.8	1859.8	1859.8
2.5°	1867.3	1860.4	1858.2	1856.6	1861.4
5°	1863.0	1856.1	1853.9	1852.3	1857.7
7.5°	1853.9	1846.9	1844.8	1843.1	1847.5
10°	1840.5	1834.0	1831.9	1830.2	1835.1
12.5°	1823.3	1817.3	1814.7	1812.5	1817.9
15°	1801.7	1795.8	1792.1	1791.0	1794.2
17.5°	1775.9	1770.0	1767.3	1765.7	1769.5
20°	1745.8	1739.4	1735.6	1733.5	1736.7
22.5°	1712.5	1706.0	1701.2	1699.1	1700.1
25°	1674.9	1668.4	1665.2	1658.7	1658.7
27.5°	1634.5	1627.0	1618.9	1611.9	1612.5
30°	1587.8	1579.2	1569.5	1560.3	1559.8
32.5°	1540.4	1529.7	1517.9	1505.5	1501.7
35°	1488.3	1475.9	1458.2	1442.0	1437.7
37.5°	1427.0	1415.7	1392.0	1378.6	1371.6
40°	1366.2	1350.1	1325.9	1310.3	1303.9
42.5°	1299.6	1284.0	1258.2	1243.6	1238.3
45°	1236.1	1215.1	1188.3	1174.8	1168.9
47.5°	1157.1	1139.9	1121.1	1105.5	1097.9
50°	1084.0	1070.0	1047.4	1030.2	1025.3
52.5°	1007.6	995.8	974.3	951.7	946.3
55°	931.8	918.9	892.0	873.2	859.7
57.5°	846.3	835.0	809.7	785.5	773.7
60°	767.8	748.4	720.5	694.1	683.4
62.5°	682.3	663.5	631.2	604.3	598.4
65°	594.1	571.5	542.5	524.8	514.6
67.5°	504.9	482.8	458.6	447.3	440.9
70°	416.7	399.0	380.7	372.6	366.7
72.5°	331.7	321.5	311.3	308.1	302.7
75°	258.1	250.6	248.4	246.8	245.2
77.5°	186.0	189.8	191.9	194.1	191.9
80°	126.4	134.4	142.5	146.8	146.8
82.5°	78.0	91.9	98.9	103.2	102.7
85°	42.5	52.7	59.7	61.8	63.4
87.5°	17.2	21.5	24.2	26.3	27.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)