

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: P738345

Luminaire Tested: **22PT-45-PW1-L840**

Issue Date: 2/8/2024



Test Information

Test Method: LM-79-08
Report Number: P738345
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2210-816-12)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/8/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 22PT-45-PW1-L840
Description: 4500 LUMEN 2X2 PERCEIVE PT TROFFER WITH 4000K, 80 CRI LEDS AND WAVES LENS

Light Source: -
Ballast/Driver: -

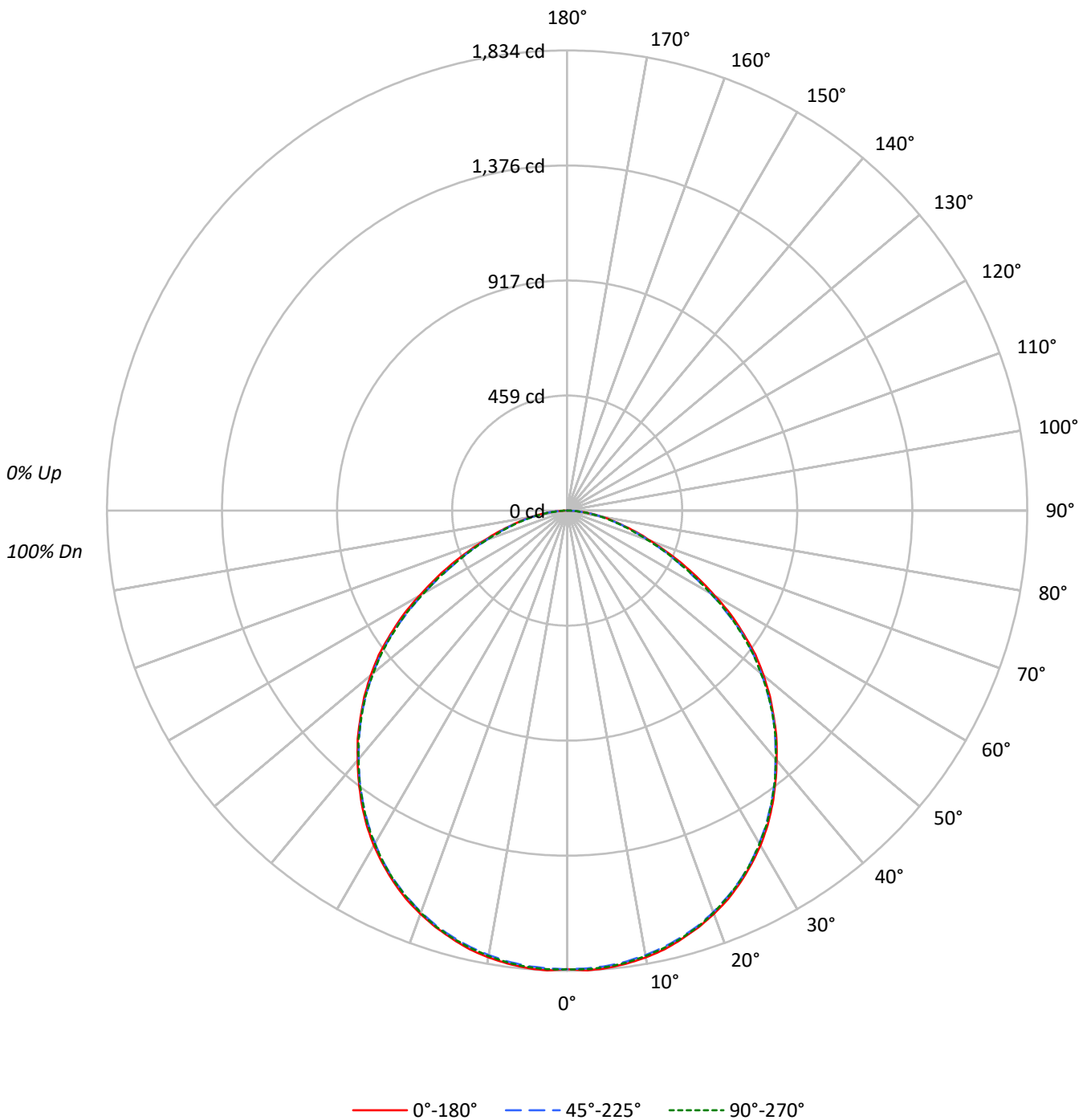
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4761.0 lumens
Efficiency: N/A
Efficacy: 134.9 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.24 / 1.34
Luminous Opening: Rectangular (W 1.92' x L: 1.92' x H: 0')
CIE Type: Direct

Input Watts (W): 35.3
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	96	98	95	93	95	92	90	91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77	84	79	76	81	77	74	72
3	92	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63	61
4	84	72	64	57	82	71	63	57	69	62	56	66	60	56	64	59	55	53
5	77	65	56	50	75	64	56	49	62	54	49	60	53	48	58	52	48	46
6	72	59	50	44	70	58	49	43	56	48	43	54	48	43	53	47	42	40
7	66	53	45	39	65	52	44	38	51	44	38	49	43	38	48	42	38	36
8	62	49	40	35	60	48	40	34	47	39	34	45	39	34	44	38	34	32
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5357	5357	5357
5°	5383	5359	5370
10°	5379	5353	5364
15°	5362	5338	5351
20°	5334	5311	5319
25°	5286	5262	5269
30°	5216	5182	5189
35°	5105	5077	5080
40°	4969	4943	4947
45°	4825	4808	4801
50°	4658	4606	4594
55°	4389	4330	4307
60°	3984	3869	3878
65°	3542	3377	3377
70°	3036	2926	2903
75°	2634	2576	2517
80°	2369	2273	2229
85°	1883	1899	1795



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.3	3.6
10°-20°	497.1	10.4
20°-30°	749.9	15.8
30°-40°	888.2	18.7
40°-50°	894.2	18.8
50°-60°	756.1	15.9
60°-70°	491.6	10.3
70°-80°	244.6	5.1
80°-90°	65.9	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°	1420.4	29.8
0°-40°	2308.6	48.5
0°-60°	3958.8	83.2
0°-90°	4761.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4761.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1828	1828	1828	1828	1828	
5°	1830	1824	1822	1821	1826	174
15°	1768	1762	1760	1759	1764	499
25°	1635	1629	1628	1626	1630	753
35°	1427	1421	1419	1419	1420	892
45°	1164	1160	1160	1159	1159	899
55°	859	852	848	844	843	767
65°	511	497	487	484	487	507
75°	233	233	228	221	222	252
85°	56	57	56	56	53	67
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1828.2	1828.2	1828.2	1828.2	1828.2
2.5°	1834.4	1828.2	1826.1	1825.0	1829.7
5°	1830.2	1823.5	1821.9	1820.9	1825.6
7.5°	1820.9	1814.7	1812.6	1812.1	1816.8
10°	1807.9	1801.7	1799.1	1798.1	1802.8
12.5°	1791.4	1784.6	1782.0	1781.0	1785.1
15°	1767.5	1761.8	1759.8	1759.2	1763.9
17.5°	1741.6	1735.9	1734.9	1733.3	1738.0
20°	1710.5	1704.8	1703.3	1701.2	1705.9
22.5°	1676.3	1669.6	1667.5	1666.0	1669.6
25°	1634.9	1629.2	1627.6	1626.1	1629.7
27.5°	1589.3	1585.1	1583.0	1581.5	1583.6
30°	1541.6	1534.3	1531.7	1530.7	1533.8
32.5°	1486.7	1481.5	1477.9	1477.3	1481.0
35°	1427.1	1420.9	1419.3	1419.3	1420.3
37.5°	1363.9	1360.7	1358.2	1356.6	1359.7
40°	1299.1	1298.0	1292.3	1291.8	1293.4
42.5°	1235.3	1231.2	1227.1	1229.1	1230.2
45°	1164.4	1160.2	1160.2	1158.7	1158.7
47.5°	1096.0	1091.8	1086.1	1086.6	1087.7
50°	1021.9	1016.7	1010.5	1014.1	1007.9
52.5°	946.2	936.9	932.2	932.2	931.7
55°	859.1	851.9	847.7	844.1	843.1
57.5°	775.2	764.3	754.0	755.0	758.6
60°	679.9	674.7	660.2	661.2	661.7
62.5°	593.8	584.0	569.0	569.0	574.1
65°	510.9	496.9	487.1	483.5	487.1
67.5°	429.6	421.8	413.5	407.8	413.0
70°	354.4	350.3	341.5	335.8	338.9
72.5°	293.3	287.6	280.3	277.2	274.1
75°	232.7	232.7	227.5	221.3	222.3
77.5°	183.4	181.9	178.3	175.7	175.7
80°	140.4	138.9	134.7	133.7	132.1
82.5°	96.9	97.4	95.3	93.8	91.7
85°	56.0	57.0	56.5	56.5	53.4
87.5°	23.8	21.8	23.3	22.8	24.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)