

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: P738265

Luminaire Tested: **22PT-50-PW1-L840**

Issue Date: 2/8/2024



Test Information

Test Method: LM-79-08
Report Number: P738265
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P506233)
Test Lab: INNOVATION CENTER
Issue Date: 2/8/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 22PT-50-PW1-L840
Description: 5000 LUMEN 2X2 PERCEIVE PT TROFFER WITH 4000K, 80 CRI LEDS AND WAVES LENS

Light Source: -
Ballast/Driver: -

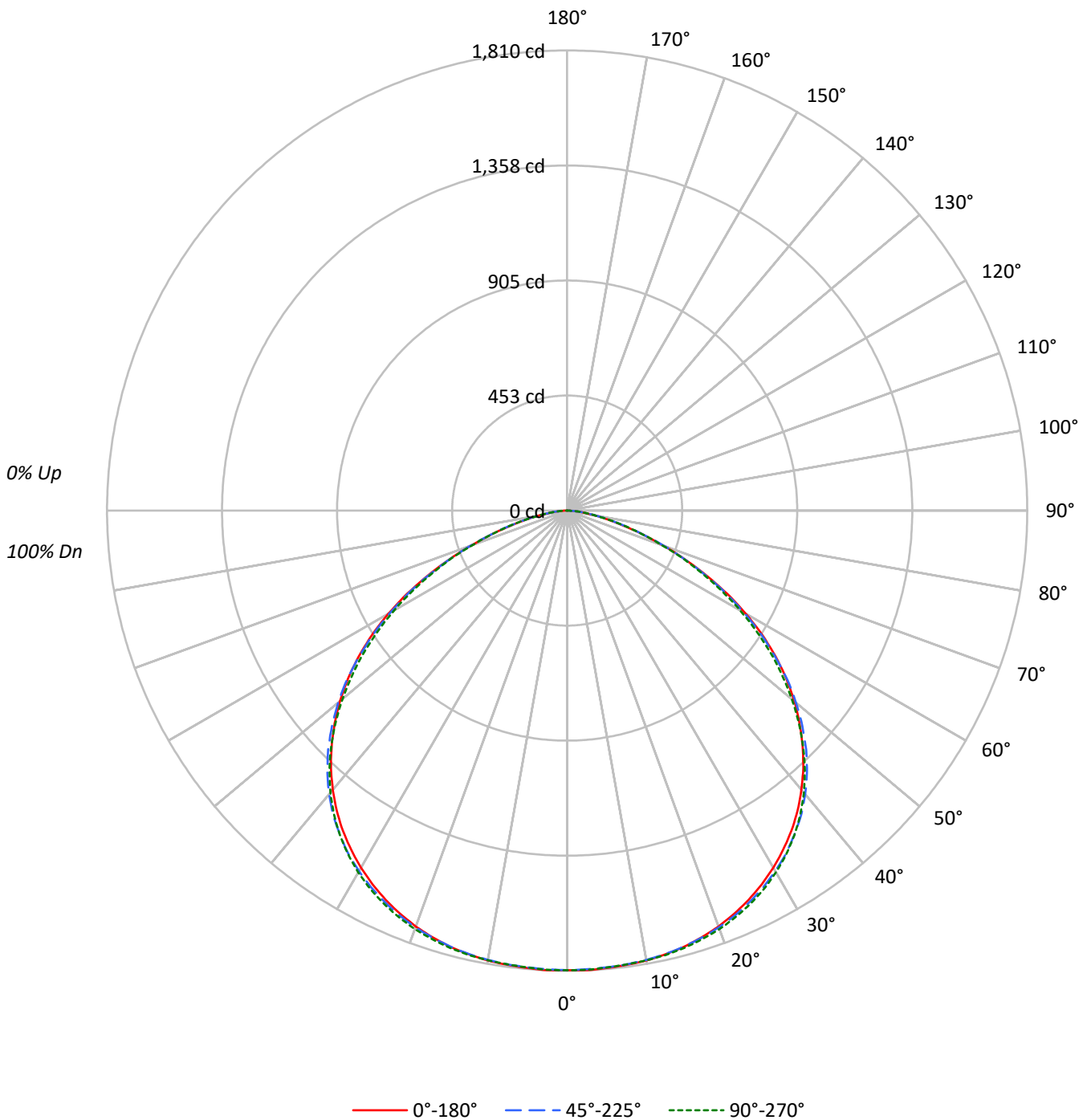
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5226.0 lumens
Efficiency: N/A
Efficacy: 133.0 lumens/watt
Spacing Criteria (0/90/45): 1.33 / 1.34 / 1.44
Luminous Opening: Rectangular (W 1.92' x L: 1.92' x H: 0')
CIE Type: Direct

Input Watts (W): 39.3
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	99	96	93	95	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	87	82	77	83	79	75	80	77	74	72
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61
4	83	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52
5	77	64	55	49	75	63	55	48	61	54	48	59	52	47	57	51	47	45
6	71	58	49	42	69	57	48	42	55	47	42	53	47	42	52	46	41	39
7	66	52	44	37	64	51	43	37	50	42	37	48	42	37	47	41	37	35
8	61	48	39	33	59	47	39	33	46	38	33	44	38	33	43	37	33	31
9	57	44	35	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5297	5297	5297
5°	5312	5304	5306
10°	5347	5339	5344
15°	5388	5386	5402
20°	5428	5440	5462
25°	5461	5492	5517
30°	5487	5540	5560
35°	5501	5572	5575
40°	5484	5573	5541
45°	5430	5508	5441
50°	5320	5358	5260
55°	5113	5090	4994
60°	4760	4706	4608
65°	4197	4157	4077
70°	3438	3454	3382
75°	2604	2692	2671
80°	1886	1962	1930
85°	1237	1281	1368



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.9	3.3
10°-20°	502.1	9.6
20°-30°	782.8	15.0
30°-40°	970.2	18.6
40°-50°	1015.3	19.4
50°-60°	884.7	16.9
60°-70°	592.6	11.3
70°-80°	256.9	4.9
80°-90°	49.5	0.9
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°	1456.8	27.9
0°-40°	2427.1	46.4
0°-60°	4327.0	82.8
0°-90°	5226.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5226.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1808	1808	1808	1808	1808	
5°	1806	1804	1803	1803	1804	172
15°	1776	1774	1776	1778	1781	502
25°	1689	1690	1699	1704	1706	779
35°	1538	1544	1558	1560	1558	961
45°	1310	1318	1329	1318	1313	1009
55°	1001	1000	996	985	978	891
65°	605	602	600	594	588	599
75°	230	234	238	236	236	253
85°	37	39	38	39	41	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1807.9	1807.9	1807.9	1807.9	1807.9
2.5°	1809.8	1806.6	1805.9	1805.9	1807.9
5°	1805.9	1804.0	1803.3	1802.8	1804.0
7.5°	1802.1	1799.5	1800.2	1798.8	1800.2
10°	1797.0	1794.4	1794.4	1794.4	1796.3
12.5°	1787.8	1786.0	1786.6	1787.8	1790.4
15°	1776.2	1773.6	1775.6	1777.5	1780.8
17.5°	1760.0	1758.1	1761.4	1764.7	1767.2
20°	1740.8	1738.7	1744.6	1749.2	1751.8
22.5°	1716.7	1716.2	1723.9	1729.1	1731.0
25°	1689.1	1689.6	1698.7	1703.8	1706.4
27.5°	1657.3	1658.7	1670.3	1674.8	1677.4
30°	1621.9	1625.0	1637.4	1641.1	1643.2
32.5°	1581.7	1586.3	1601.1	1603.7	1603.7
35°	1537.9	1543.6	1557.8	1559.7	1558.5
37.5°	1488.8	1495.1	1511.3	1508.7	1506.8
40°	1433.8	1440.8	1457.0	1451.8	1448.7
42.5°	1375.0	1382.1	1396.3	1388.6	1384.0
45°	1310.4	1317.5	1329.2	1318.2	1313.0
47.5°	1240.5	1248.9	1254.8	1242.6	1236.0
50°	1167.0	1169.6	1175.4	1161.1	1153.9
52.5°	1086.8	1086.8	1091.4	1075.8	1067.3
55°	1000.9	1000.2	996.4	985.4	977.7
57.5°	909.8	905.9	903.3	891.6	882.7
60°	812.2	806.4	803.1	793.5	786.3
62.5°	710.2	706.9	703.0	695.2	687.5
65°	605.4	602.1	599.6	593.9	588.0
67.5°	501.5	499.4	499.4	495.6	494.9
70°	401.3	402.5	403.2	403.2	394.8
72.5°	310.8	311.5	314.7	312.1	311.5
75°	230.0	234.0	237.8	235.9	235.9
77.5°	165.4	171.3	171.3	169.9	168.0
80°	111.8	114.4	116.3	115.6	114.4
82.5°	71.1	73.0	71.1	72.3	73.0
85°	36.8	39.3	38.1	38.8	40.7
87.5°	12.2	13.6	14.3	13.6	13.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)