

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: P738537

Luminaire Tested: **24PT-45-PL1-L840**

Issue Date: 2/8/2024



Test Information

Test Method: LM-79-08
Report Number: P738537
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-45-PL1-L840
Description: 4500 LUMEN 2X4 PERCEIVE PT TROFFER WITH 4000K, 80 CRI LEDS AND LEAVES LENS

Light Source: -
Ballast/Driver: -

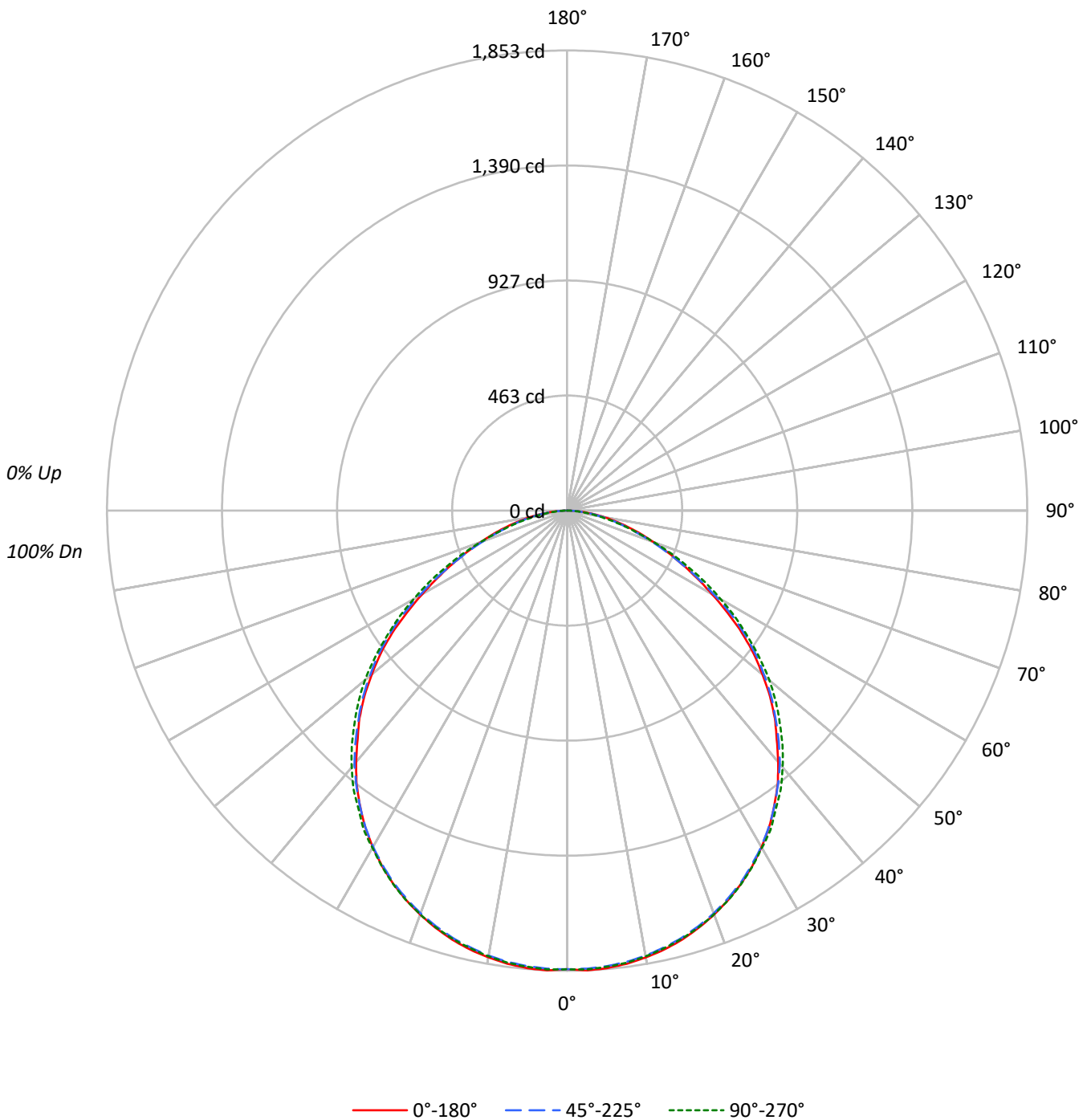
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4889.0 lumens
Efficiency: N/A
Efficacy: 131.4 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): 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	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°	2648	2648	2648
5°	2662	2650	2654
10°	2660	2649	2654
15°	2655	2644	2650
20°	2642	2634	2640
25°	2622	2616	2625
30°	2591	2588	2597
35°	2544	2545	2565
40°	2474	2493	2527
45°	2397	2408	2456
50°	2290	2317	2372
55°	2150	2190	2223
60°	1931	1978	2051
65°	1727	1731	1825
70°	1540	1498	1551
75°	1391	1309	1285
80°	1236	1153	1017
85°	1013	961	795



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.2	3.6
10°-20°	503.1	10.3
20°-30°	762.2	15.6
30°-40°	910.8	18.6
40°-50°	918.8	18.8
50°-60°	779.5	15.9
60°-70°	515.8	10.5
70°-80°	256.0	5.2
80°-90°	67.7	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°	1440.4	29.5
0°-40°	2351.3	48.1
0°-60°	4049.6	82.8
0°-90°	4889.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4889.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1847	1847	1847	1847	1847	
5°	1849	1843	1841	1840	1844	176
15°	1789	1783	1781	1781	1785	505
25°	1658	1654	1654	1653	1659	763
35°	1454	1452	1454	1462	1465	908
45°	1182	1181	1188	1204	1211	910
55°	860	862	876	884	889	765
65°	509	508	510	526	538	508
75°	251	244	236	229	232	269
85°	62	62	58	54	48	73
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1847.0	1847.0	1847.0	1847.0	1847.0
2.5°	1853.4	1847.6	1846.0	1844.9	1849.2
5°	1849.2	1842.8	1841.2	1840.1	1843.9
7.5°	1840.7	1833.8	1832.7	1831.6	1836.4
10°	1826.9	1820.5	1819.4	1818.4	1822.6
12.5°	1810.4	1804.0	1801.9	1802.4	1805.1
15°	1788.6	1782.8	1781.2	1781.2	1784.9
17.5°	1761.6	1756.3	1755.2	1754.7	1759.4
20°	1731.3	1726.0	1726.0	1727.6	1730.2
22.5°	1696.8	1693.1	1691.0	1692.0	1697.3
25°	1657.5	1653.8	1653.8	1653.3	1659.1
27.5°	1614.0	1609.2	1609.2	1613.4	1615.6
30°	1565.1	1560.9	1563.0	1566.2	1568.3
32.5°	1512.6	1509.9	1511.5	1516.3	1524.8
35°	1453.6	1451.5	1454.2	1462.1	1465.3
37.5°	1392.1	1390.5	1394.2	1404.8	1413.8
40°	1322.0	1322.0	1332.1	1341.6	1350.1
42.5°	1249.2	1254.0	1261.4	1276.3	1283.7
45°	1182.3	1180.7	1187.7	1203.6	1211.0
47.5°	1108.0	1106.4	1116.5	1127.7	1139.9
50°	1026.8	1026.3	1038.5	1048.0	1063.4
52.5°	947.7	952.5	960.4	968.9	977.9
55°	860.1	862.2	876.0	884.0	889.3
57.5°	765.6	772.5	789.5	801.1	805.9
60°	673.2	677.4	689.7	710.4	715.1
62.5°	589.3	590.9	598.3	621.7	628.1
65°	509.1	508.1	510.2	526.1	537.8
67.5°	436.4	432.2	432.2	440.7	455.0
70°	367.4	361.0	357.3	360.0	370.0
72.5°	309.5	301.0	291.5	289.9	296.2
75°	251.1	244.2	236.3	228.8	232.0
77.5°	200.2	194.3	186.9	178.4	174.1
80°	149.7	147.6	139.6	131.7	123.2
82.5°	104.6	103.0	97.7	91.3	86.0
85°	61.6	61.6	58.4	53.6	48.3
87.5°	27.6	26.5	27.6	23.4	21.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)