

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: P738529

Luminaire Tested: **24PT-45-PC3-L840**

Issue Date: 2/8/2024



Test Information

Test Method: LM-79-08
Report Number: P738529
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2210-816-10)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/8/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 24PT-45-PC3-L840
Description: 4500 LUMEN 2X4 PERCEIVE PT TROFFER WITH 4000K, 80 CRI LEDS AND PARAMID LENS

Light Source: -
Ballast/Driver: -

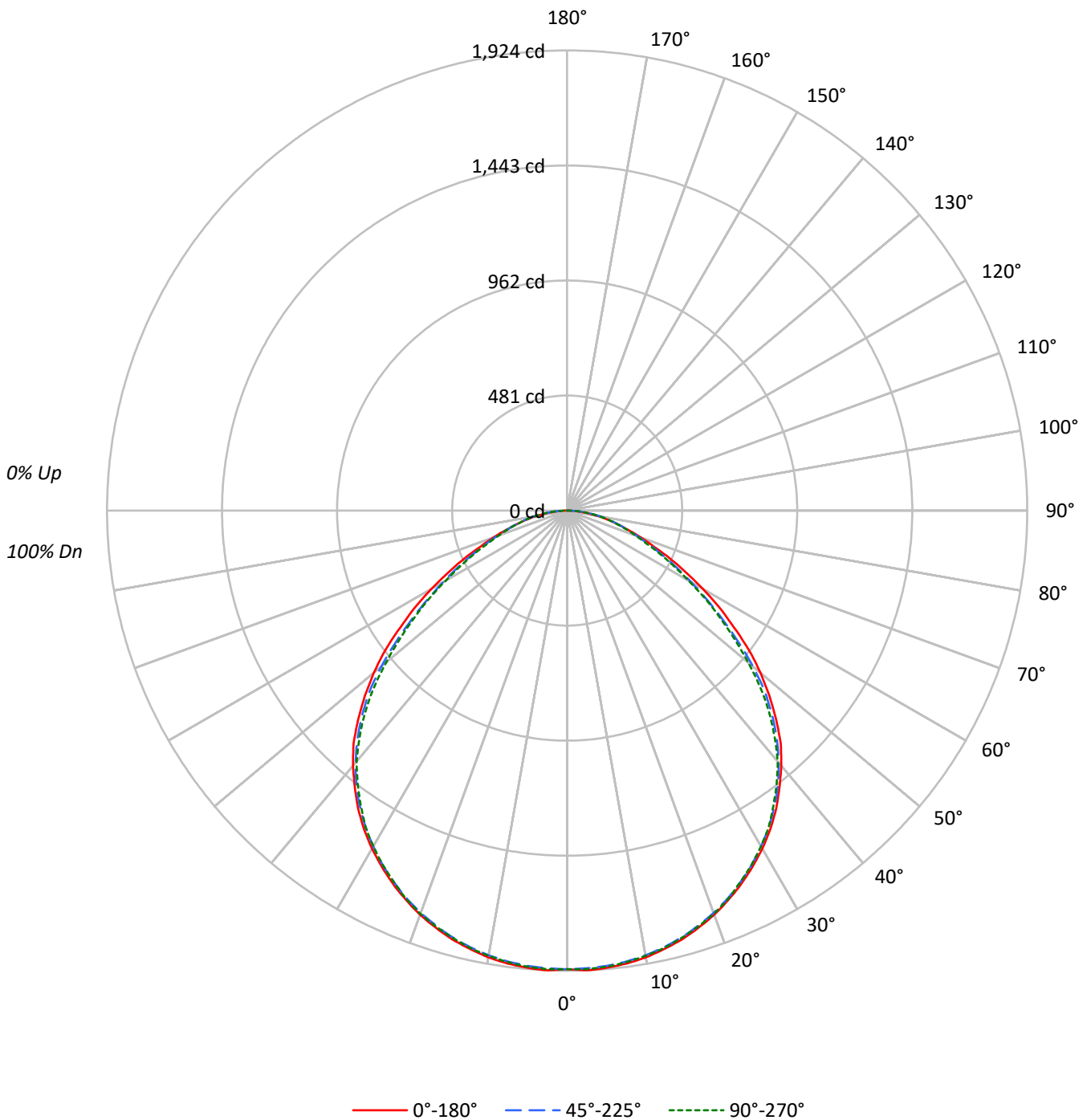
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4837.0 lumens
Efficiency: N/A
Efficacy: 130.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.25 / 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	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	88	86
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73
3	92	82	74	68	90	81	73	68	78	72	67	75	70	65	72	68	64	62
4	85	73	65	59	82	72	64	58	69	63	57	67	61	57	65	60	56	54
5	78	66	57	51	76	65	57	51	63	55	50	61	54	50	59	53	49	47
6	72	59	51	45	70	59	50	44	57	50	44	55	49	44	54	48	43	41
7	67	54	46	40	65	53	45	40	52	45	39	50	44	39	49	43	39	37
8	63	49	41	36	61	49	41	35	47	40	35	46	40	35	45	39	35	33
9	58	45	37	32	57	45	37	32	44	37	32	43	36	32	42	36	31	30
10	55	42	34	29	54	41	34	29	40	34	29	40	33	29	39	33	29	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2750	2750	2750
5°	2762	2750	2755
10°	2762	2749	2753
15°	2755	2743	2746
20°	2744	2731	2737
25°	2726	2712	2711
30°	2702	2685	2684
35°	2666	2645	2633
40°	2606	2575	2563
45°	2505	2459	2424
50°	2352	2262	2202
55°	2127	1983	1945
60°	1881	1716	1682
65°	1608	1487	1449
70°	1363	1304	1267
75°	1194	1215	1174
80°	1071	1181	1115
85°	905	1079	1027



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.8	3.8
10°-20°	521.9	10.8
20°-30°	790.6	16.3
30°-40°	944.3	19.5
40°-50°	931.5	19.3
50°-60°	721.1	14.9
60°-70°	443.2	9.2
70°-80°	232.2	4.8
80°-90°	70.4	1.5
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°	1494.3	30.9
0°-40°	2438.5	50.4
0°-60°	4091.1	84.6
0°-90°	4837.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4837.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1918	1918	1918	1918	1918	
5°	1919	1913	1911	1910	1914	182
15°	1856	1850	1848	1846	1850	524
25°	1723	1717	1714	1713	1714	794
35°	1523	1516	1511	1506	1504	951
45°	1236	1226	1213	1200	1196	950
55°	851	828	793	781	778	763
65°	474	452	438	425	427	473
75°	216	218	219	215	212	232
85°	55	61	66	64	62	64
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1917.6	1917.6	1917.6	1917.6	1917.6
2.5°	1924.0	1918.1	1915.5	1914.9	1919.2
5°	1918.7	1912.8	1910.6	1909.6	1914.4
7.5°	1910.1	1903.7	1901.6	1900.0	1904.2
10°	1896.8	1890.4	1888.2	1887.2	1890.9
12.5°	1877.6	1871.7	1870.1	1868.5	1873.3
15°	1856.2	1850.3	1847.7	1846.1	1849.8
17.5°	1828.5	1823.7	1820.5	1820.5	1823.7
20°	1798.6	1792.7	1790.0	1788.4	1793.8
22.5°	1761.7	1758.0	1754.8	1752.1	1758.0
25°	1722.8	1717.4	1714.2	1713.2	1713.7
27.5°	1678.5	1674.8	1670.5	1668.9	1669.9
30°	1632.1	1627.3	1621.4	1618.2	1620.8
32.5°	1580.3	1573.3	1568.5	1565.3	1569.1
35°	1523.2	1516.2	1510.9	1506.1	1504.0
37.5°	1458.1	1455.9	1448.5	1439.9	1439.4
40°	1392.4	1386.6	1375.9	1372.1	1369.5
42.5°	1322.0	1309.7	1298.5	1287.8	1284.1
45°	1235.5	1226.4	1212.6	1199.8	1195.5
47.5°	1146.9	1135.2	1121.8	1099.4	1096.8
50°	1054.6	1037.5	1014.0	995.4	987.3
52.5°	958.5	935.6	903.0	887.0	882.7
55°	850.7	827.8	793.1	781.3	778.1
57.5°	754.7	721.0	692.7	679.4	683.7
60°	655.9	623.4	598.3	585.5	586.5
62.5°	559.3	533.7	515.0	502.7	504.3
65°	473.9	452.0	438.2	425.4	427.0
67.5°	390.1	380.0	369.9	362.4	358.1
70°	325.0	320.8	311.1	304.2	302.1
72.5°	265.8	268.5	260.4	258.3	257.8
75°	215.6	217.7	219.4	215.1	211.9
77.5°	172.4	175.6	182.0	176.1	175.1
80°	129.7	136.1	143.0	139.3	135.0
82.5°	90.7	98.7	105.1	100.3	98.2
85°	55.0	61.4	65.6	64.0	62.4
87.5°	24.6	26.7	28.8	29.4	28.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)