

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: P738530

Luminaire Tested: **24PT-45-PC3-L850**

Issue Date: 2/8/2024



Test Information

Test Method: LM-79-08
Report Number: P738530
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-L850
Description: 4500 LUMEN 2X4 PERCEIVE PT TROFFER WITH 5000K, 80 CRI LEDS AND PARAMID LENS

Light Source: -
Ballast/Driver: -

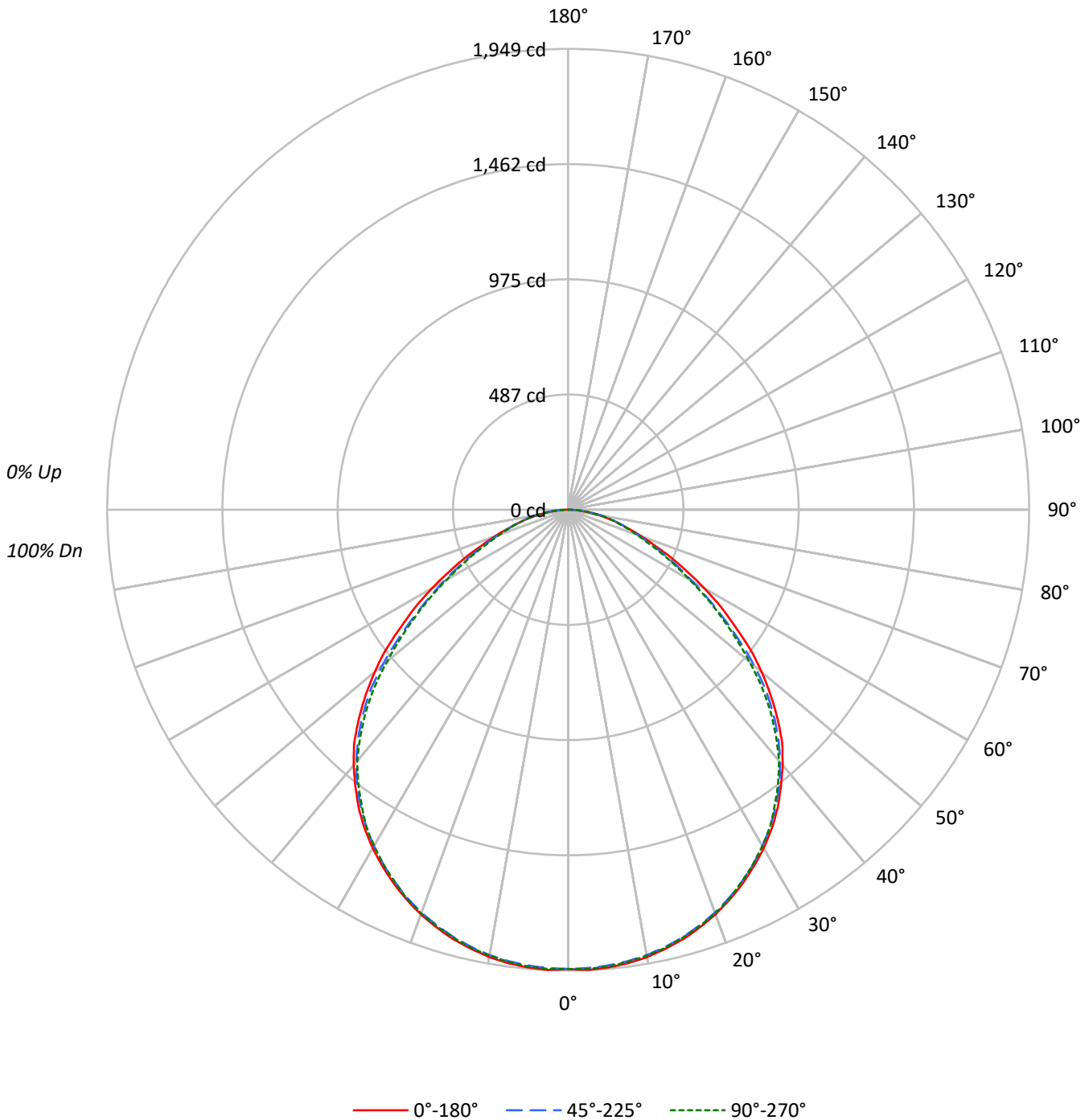
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4899.0 lumens
Efficiency: N/A
Efficacy: 131.7 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°	2785	2785	2785
5°	2797	2785	2791
10°	2797	2784	2788
15°	2791	2778	2781
20°	2780	2766	2772
25°	2761	2747	2746
30°	2737	2719	2718
35°	2700	2679	2666
40°	2640	2608	2596
45°	2538	2490	2455
50°	2383	2291	2231
55°	2154	2008	1970
60°	1905	1738	1704
65°	1629	1506	1467
70°	1380	1321	1282
75°	1210	1231	1189
80°	1085	1196	1130
85°	916	1094	1040



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.2	3.8
10°-20°	528.6	10.8
20°-30°	800.7	16.3
30°-40°	956.4	19.5
40°-50°	943.4	19.3
50°-60°	730.3	14.9
60°-70°	448.9	9.2
70°-80°	235.2	4.8
80°-90°	71.3	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°	1513.4	30.9
0°-40°	2469.8	50.4
0°-60°	4143.6	84.6
0°-90°	4899.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4899.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1942	1942	1942	1942	1942	
5°	1943	1937	1935	1934	1939	185
15°	1880	1874	1871	1870	1874	530
25°	1745	1740	1736	1735	1736	804
35°	1543	1536	1530	1525	1523	963
45°	1251	1242	1228	1215	1211	963
55°	862	838	803	791	788	773
65°	480	458	444	431	432	479
75°	218	220	222	218	215	235
85°	56	62	66	65	63	65
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1942.2	1942.2	1942.2	1942.2	1942.2
2.5°	1948.7	1942.7	1940.0	1939.5	1943.8
5°	1943.2	1937.3	1935.1	1934.1	1938.9
7.5°	1934.6	1928.1	1925.9	1924.3	1928.7
10°	1921.1	1914.6	1912.4	1911.4	1915.1
12.5°	1901.6	1895.7	1894.1	1892.4	1897.3
15°	1880.0	1874.1	1871.4	1869.7	1873.5
17.5°	1851.9	1847.0	1843.8	1843.8	1847.0
20°	1821.6	1815.7	1813.0	1811.4	1816.8
22.5°	1784.3	1780.5	1777.3	1774.6	1780.5
25°	1744.9	1739.5	1736.2	1735.1	1735.7
27.5°	1700.0	1696.2	1691.9	1690.3	1691.4
30°	1653.0	1648.1	1642.2	1638.9	1641.6
32.5°	1600.5	1593.5	1588.7	1585.4	1589.2
35°	1542.7	1535.7	1530.3	1525.4	1523.2
37.5°	1476.8	1474.6	1467.0	1458.4	1457.8
40°	1410.3	1404.3	1393.5	1389.7	1387.0
42.5°	1338.9	1326.5	1315.1	1304.3	1300.5
45°	1251.4	1242.2	1228.1	1215.1	1210.8
47.5°	1161.6	1149.7	1136.2	1113.5	1110.8
50°	1068.1	1050.8	1027.0	1008.1	1000.0
52.5°	970.8	947.6	914.6	898.4	894.1
55°	861.6	838.4	803.2	791.4	788.1
57.5°	764.3	730.3	701.6	688.1	692.4
60°	664.3	631.4	605.9	593.0	594.1
62.5°	566.5	540.5	521.6	509.2	510.8
65°	480.0	457.8	443.8	430.8	432.4
67.5°	395.1	384.9	374.6	367.0	362.7
70°	329.2	324.9	315.1	308.1	305.9
72.5°	269.2	271.9	263.8	261.6	261.1
75°	218.4	220.5	222.2	217.8	214.6
77.5°	174.6	177.8	184.3	178.4	177.3
80°	131.4	137.8	144.9	141.1	136.8
82.5°	91.9	100.0	106.5	101.6	99.5
85°	55.7	62.2	66.5	64.9	63.2
87.5°	24.9	27.0	29.2	29.7	28.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)