

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: P738578

Luminaire Tested: **24PT-50-PR1-L850**

Issue Date: 2/8/2024



Test Information

Test Method: LM-79-08
Report Number: P738578
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2210-816-15)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/8/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 24PT-50-PR1-L850
Description: 5000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 5000K, 80 CRI LEDS AND RIPPLE LENS

Light Source: -
Ballast/Driver: -

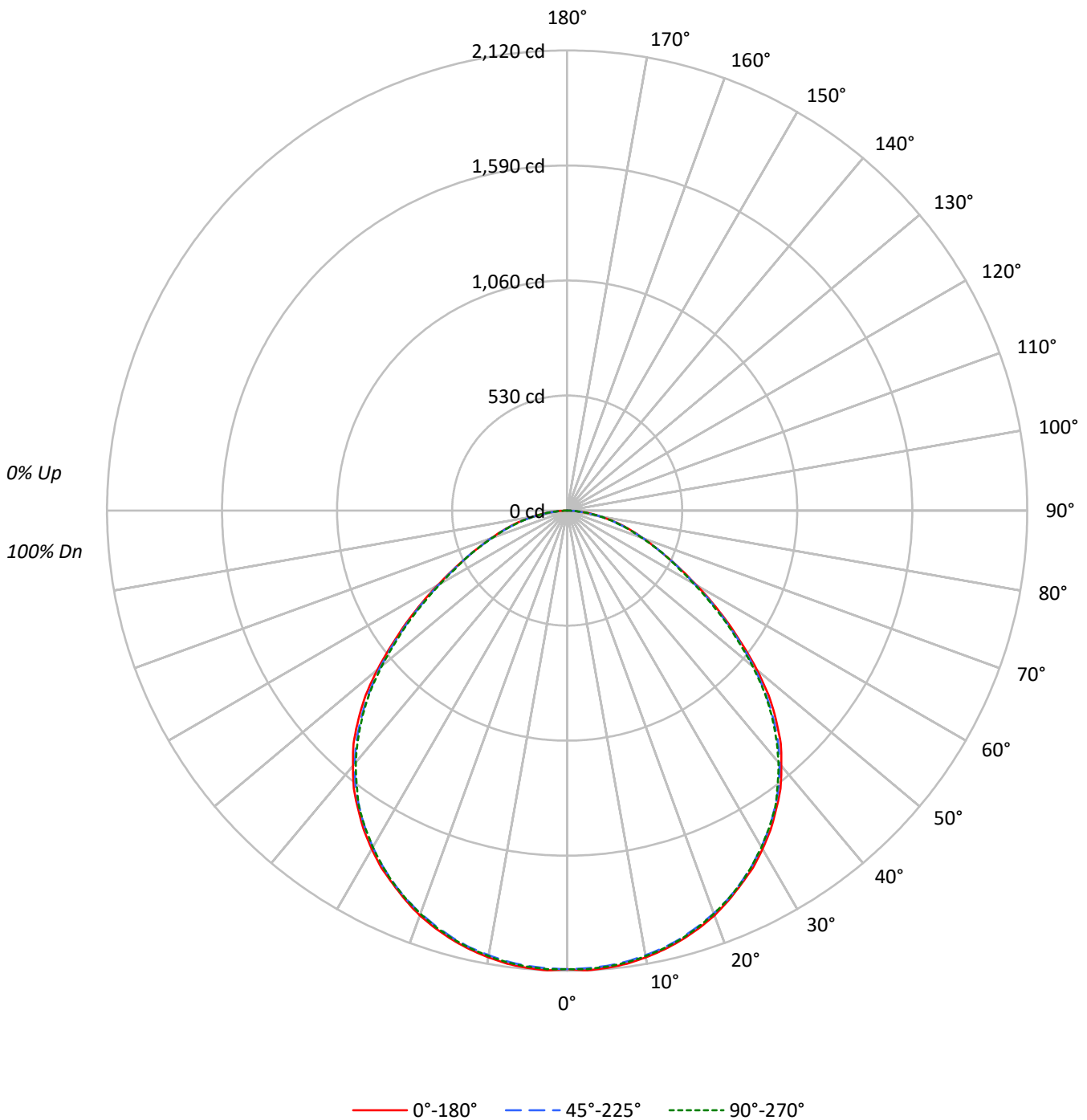
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5381.0 lumens
Efficiency: N/A
Efficacy: 131.2 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): 41
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

TEST NUMBER: P738578
CATALOG NUMBER: 24PT-50-PR1-L850

Luminous Intensity Polar Plot





TEST NUMBER: P738578

CATALOG NUMBER: 24PT-50-PR1-L850

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	87	85
2	100	93	86	81	98	91	85	80	87	82	78		84	80	76		81	78	75	72
3	92	82	74	68	89	80	73	67	77	71	66		75	70	65		72	68	64	62
4	84	73	65	58	82	72	64	58	69	62	57		67	61	56		65	60	56	53
5	78	66	57	51	76	64	56	50	62	55	50		60	54	49		59	53	49	47
6	72	59	51	44	70	58	50	44	57	49	44		55	48	43		53	48	43	41
7	67	54	45	39	65	53	45	39	52	44	39		50	44	39		49	43	38	36
8	62	49	41	35	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		42	36	31		41	36	31	29
10	55	42	34	29	53	41	34	29	40	33	29		39	33	29		38	33	28	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3030	3030	3030
5°	3044	3031	3036
10°	3043	3028	3035
15°	3038	3025	3030
20°	3029	3013	3016
25°	3004	2995	2997
30°	2981	2964	2964
35°	2939	2922	2925
40°	2873	2849	2836
45°	2758	2714	2700
50°	2546	2509	2486
55°	2266	2234	2219
60°	1976	1954	1933
65°	1731	1733	1723
70°	1558	1553	1531
75°	1451	1408	1412
80°	1296	1272	1272
85°	1000	1028	990



TEST NUMBER: P738578

CATALOG NUMBER: 24PT-50-PR1-L850

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.4	3.7
10°-20°	575.5	10.7
20°-30°	872.6	16.2
30°-40°	1043.6	19.4
40°-50°	1030.4	19.1
50°-60°	802.0	14.9
60°-70°	509.1	9.5
70°-80°	273.2	5.1
80°-90°	74.1	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°	1648.5	30.6
0°-40°	2692.1	50.0
0°-60°	4524.5	84.1
0°-90°	5381.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5381.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2113	2113	2113	2113	2113	
5°	2115	2108	2106	2105	2109	201
15°	2047	2040	2038	2036	2042	578
25°	1899	1895	1893	1889	1894	876
35°	1679	1676	1669	1664	1671	1050
45°	1360	1351	1338	1332	1331	1044
55°	907	902	894	888	888	812
65°	510	512	511	504	508	512
75°	262	258	254	254	255	277
85°	61	62	62	62	60	75
90°	0	0	0	0	0	



TEST NUMBER: P738578

CATALOG NUMBER: 24PT-50-PR1-L850

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2112.9	2112.9	2112.9	2112.9	2112.9
2.5°	2120.0	2112.9	2110.5	2109.4	2114.7
5°	2114.7	2108.2	2105.8	2104.6	2109.4
7.5°	2105.8	2098.1	2095.8	2094.6	2099.9
10°	2089.9	2082.8	2079.9	2079.9	2084.6
12.5°	2071.0	2065.1	2062.2	2059.8	2065.1
15°	2046.8	2039.8	2038.0	2035.6	2041.5
17.5°	2017.9	2010.8	2008.5	2007.3	2011.4
20°	1984.9	1976.0	1974.9	1974.3	1976.6
22.5°	1944.2	1939.5	1937.1	1935.9	1937.7
25°	1898.8	1895.2	1892.9	1889.3	1894.1
27.5°	1854.5	1849.8	1843.9	1841.0	1843.9
30°	1800.3	1794.4	1790.2	1789.1	1790.2
32.5°	1744.2	1738.3	1733.0	1732.4	1731.8
35°	1679.3	1675.8	1669.3	1664.0	1671.1
37.5°	1615.0	1606.8	1600.9	1594.4	1592.6
40°	1534.8	1531.9	1521.9	1516.0	1515.4
42.5°	1457.0	1443.4	1436.3	1432.2	1425.7
45°	1360.2	1350.8	1338.4	1331.9	1331.3
47.5°	1259.4	1247.6	1235.8	1226.9	1229.3
50°	1141.4	1136.1	1124.9	1117.2	1114.3
52.5°	1019.9	1018.7	1006.9	1002.2	996.9
55°	906.6	901.9	893.6	887.7	887.7
57.5°	795.1	791.0	786.9	775.7	775.7
60°	689.0	688.4	681.3	674.8	674.2
62.5°	594.0	597.5	591.0	584.6	581.0
65°	510.2	512.0	510.8	504.3	507.9
67.5°	436.5	437.1	434.7	431.2	433.6
70°	371.6	374.6	370.4	368.1	365.1
72.5°	315.0	313.8	310.3	312.0	307.9
75°	261.9	257.8	254.2	253.6	254.8
77.5°	208.8	207.6	204.7	204.7	202.9
80°	156.9	155.7	154.0	154.5	154.0
82.5°	111.5	108.5	106.2	107.4	107.9
85°	60.8	61.9	62.5	62.5	60.2
87.5°	24.8	24.2	24.8	26.0	26.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)