

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: P738514

Luminaire Tested: **24PT-40-PR1-L850**

Issue Date: 2/8/2024



Test Information

Test Method: LM-79-08
Report Number: P738514
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-40-PR1-L850
Description: 4000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 5000K, 80 CRI LEDS AND RIPPLE LENS

Light Source: -
Ballast/Driver: -

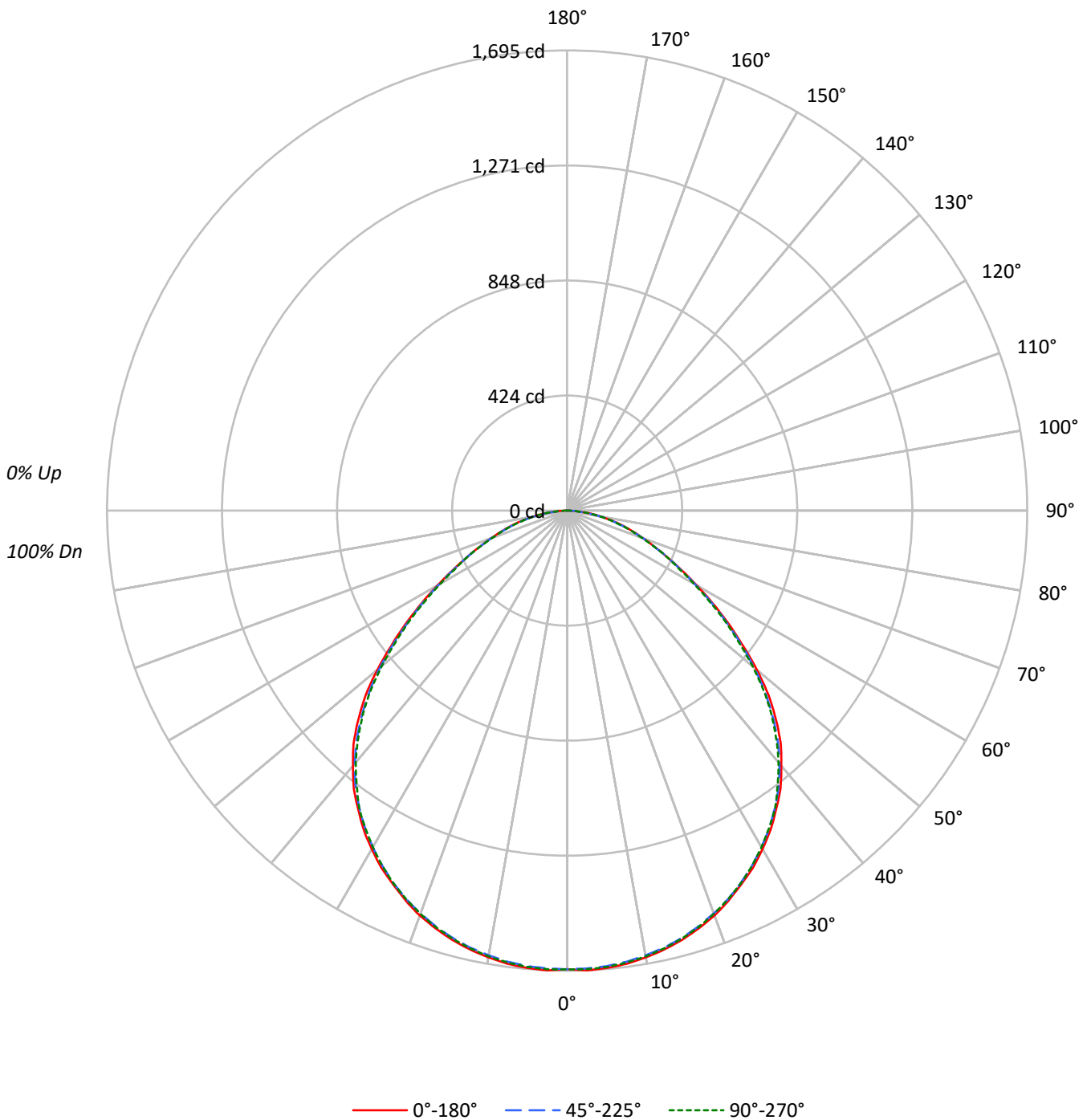
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4303.0 lumens
Efficiency: N/A
Efficacy: 131.6 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): 32.7
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: P738514
CATALOG NUMBER: 24PT-40-PR1-L850

Luminous Intensity Polar Plot





TEST NUMBER: P738514

CATALOG NUMBER: 24PT-40-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	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					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°	2423	2423	2423
5°	2434	2424	2428
10°	2433	2422	2427
15°	2430	2419	2423
20°	2422	2410	2412
25°	2402	2395	2396
30°	2384	2370	2370
35°	2351	2337	2339
40°	2297	2278	2268
45°	2206	2170	2159
50°	2036	2007	1988
55°	1812	1786	1775
60°	1580	1562	1546
65°	1384	1386	1378
70°	1246	1242	1224
75°	1160	1126	1129
80°	1036	1016	1016
85°	800	823	791



TEST NUMBER: P738514

CATALOG NUMBER: 24PT-40-PR1-L850

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.2	3.7
10°-20°	460.2	10.7
20°-30°	697.8	16.2
30°-40°	834.5	19.4
40°-50°	824.0	19.1
50°-60°	641.3	14.9
60°-70°	407.1	9.5
70°-80°	218.5	5.1
80°-90°	59.2	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°	1318.2	30.6
0°-40°	2152.8	50.0
0°-60°	3618.1	84.1
0°-90°	4303.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4303.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1690	1690	1690	1690	1690	
5°	1691	1686	1684	1683	1687	161
15°	1637	1631	1630	1628	1632	462
25°	1518	1516	1514	1511	1515	700
35°	1343	1340	1335	1331	1336	840
45°	1088	1080	1070	1065	1065	835
55°	725	721	715	710	710	649
65°	408	409	408	403	406	409
75°	209	206	203	203	204	221
85°	49	50	50	50	48	60
90°	0	0	0	0	0	



TEST NUMBER: P738514

CATALOG NUMBER: 24PT-40-PR1-L850

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1689.6	1689.6	1689.6	1689.6	1689.6
2.5°	1695.3	1689.6	1687.7	1686.8	1691.0
5°	1691.0	1685.8	1683.9	1683.0	1686.8
7.5°	1683.9	1677.8	1675.9	1675.0	1679.2
10°	1671.2	1665.6	1663.2	1663.2	1667.0
12.5°	1656.1	1651.4	1649.0	1647.2	1651.4
15°	1636.8	1631.1	1629.7	1627.8	1632.5
17.5°	1613.7	1608.0	1606.1	1605.2	1608.5
20°	1587.3	1580.2	1579.2	1578.8	1580.6
22.5°	1554.7	1550.9	1549.0	1548.1	1549.5
25°	1518.4	1515.6	1513.7	1510.8	1514.6
27.5°	1483.0	1479.2	1474.5	1472.2	1474.5
30°	1439.6	1434.9	1431.6	1430.6	1431.6
32.5°	1394.8	1390.1	1385.8	1385.4	1384.9
35°	1342.9	1340.1	1334.9	1330.6	1336.3
37.5°	1291.5	1284.9	1280.2	1275.0	1273.6
40°	1227.3	1225.0	1217.0	1212.3	1211.8
42.5°	1165.1	1154.2	1148.6	1145.3	1140.1
45°	1087.7	1080.2	1070.3	1065.1	1064.6
47.5°	1007.1	997.6	988.2	981.1	983.0
50°	912.7	908.5	899.5	893.4	891.0
52.5°	815.6	814.6	805.2	801.4	797.2
55°	725.0	721.2	714.6	709.9	709.9
57.5°	635.8	632.5	629.2	620.3	620.3
60°	550.9	550.5	544.8	539.6	539.1
62.5°	475.0	477.8	472.6	467.4	464.6
65°	408.0	409.4	408.5	403.3	406.1
67.5°	349.1	349.5	347.6	344.8	346.7
70°	297.2	299.5	296.2	294.3	292.0
72.5°	251.9	250.9	248.1	249.5	246.2
75°	209.4	206.1	203.3	202.8	203.8
77.5°	167.0	166.0	163.7	163.7	162.3
80°	125.5	124.5	123.1	123.6	123.1
82.5°	89.2	86.8	84.9	85.8	86.3
85°	48.6	49.5	50.0	50.0	48.1
87.5°	19.8	19.3	19.8	20.8	21.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)