

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: P737871

Luminaire Tested: **14PT-50-PR1-L830**

Issue Date: 2/8/2024



Test Information

Test Method: LM-79-08
Report Number: P737871
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2211-846-11)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/8/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 14PT-50-PR1-L830
Description: 5000 LUMEN 1X4 PERCEIVE PT TROFFER WITH 3000K, 80 CRI LEDS AND RIPLE LENS

Light Source: -
Ballast/Driver: -

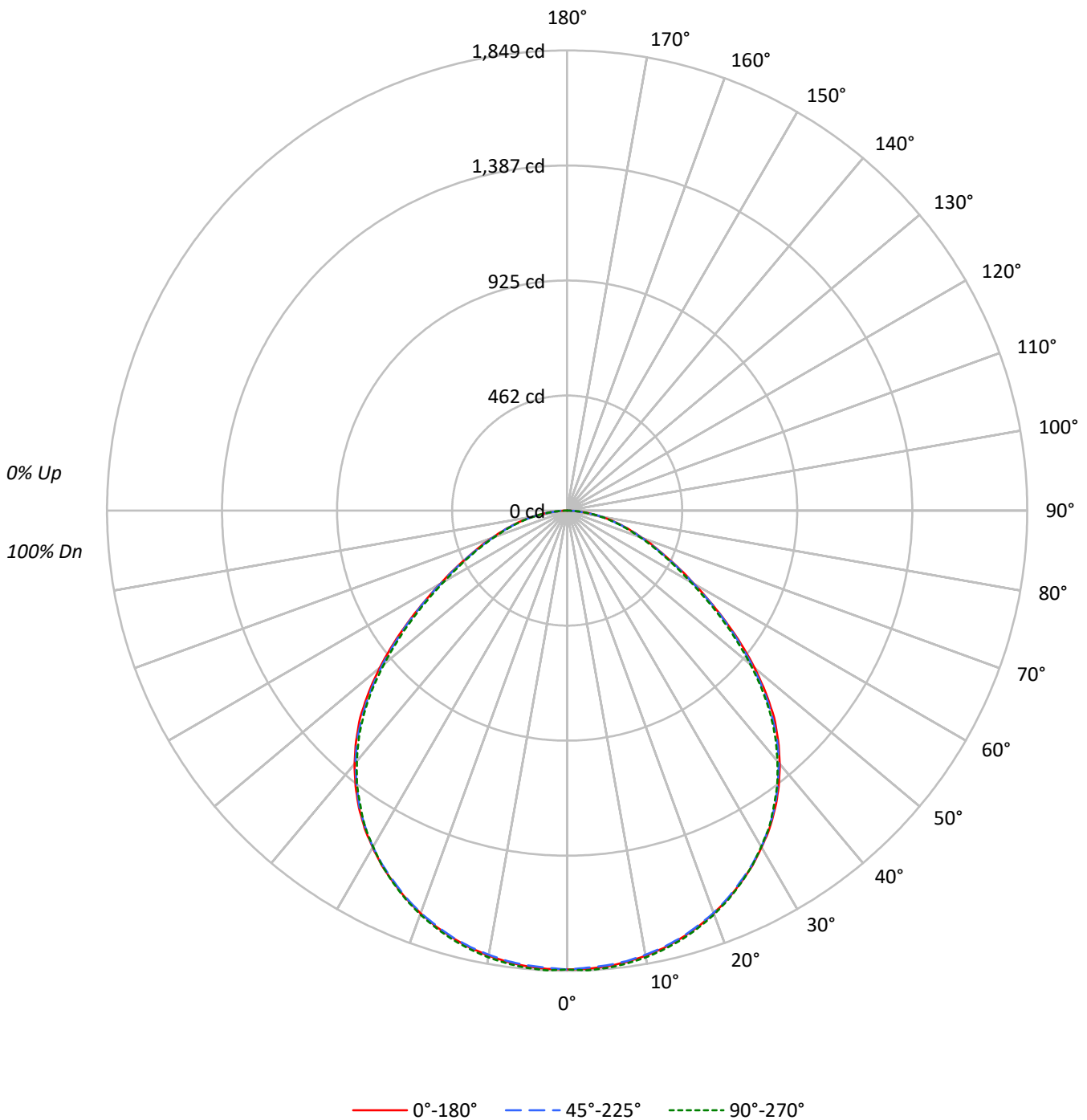
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4663.0 lumens
Efficiency: N/A
Efficacy: 114.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.34
Luminous Opening: Rectangular (W 0.92' x L: 3.92' x H: 0')
CIE Type: Direct

Input Watts (W): 40.9
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: P737871
CATALOG NUMBER: 14PT-50-PR1-L830

Luminous Intensity Polar Plot





TEST NUMBER: P737871

CATALOG NUMBER: 14PT-50-PR1-L830

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	85
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	80	73	68	78	71	66	75	70	65	72	68	64	62
4	85	73	65	58	82	72	64	58	69	63	57	67	61	56	65	60	56	54
5	78	66	57	51	76	65	56	50	62	55	50	61	54	49	59	53	49	47
6	72	59	51	45	70	58	50	44	57	49	44	55	49	44	53	48	43	41
7	67	54	45	40	65	53	45	39	52	44	39	50	44	39	49	43	39	37
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	43	36	32	42	36	31	30
10	55	42	34	29	54	41	34	29	40	34	29	39	33	29	39	33	29	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5528	5528	5528
5°	5533	5521	5551
10°	5529	5519	5549
15°	5518	5510	5536
20°	5495	5488	5509
25°	5459	5446	5465
30°	5411	5404	5397
35°	5336	5324	5302
40°	5201	5181	5145
45°	4985	4929	4892
50°	4587	4534	4479
55°	4059	4042	3962
60°	3527	3515	3420
65°	3109	3089	3028
70°	2821	2781	2723
75°	2611	2550	2503
80°	2384	2350	2270
85°	1889	1864	1796



TEST NUMBER: P737871

CATALOG NUMBER: 14PT-50-PR1-L830

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.9	3.8
10°-20°	502.0	10.8
20°-30°	760.5	16.3
30°-40°	907.9	19.5
40°-50°	892.9	19.1
50°-60°	690.1	14.8
60°-70°	435.1	9.3
70°-80°	235.4	5.0
80°-90°	64.3	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°	1437.4	30.8
0°-40°	2345.3	50.3
0°-60°	3928.2	84.2
0°-90°	4663.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4663.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1844	1844	1844	1844	1844	
5°	1838	1839	1835	1842	1844	175
15°	1778	1778	1775	1781	1784	502
25°	1650	1652	1646	1652	1652	761
35°	1458	1458	1455	1453	1449	910
45°	1176	1171	1162	1153	1154	900
55°	776	783	773	761	758	697
65°	438	439	436	428	427	441
75°	225	223	220	221	216	239
85°	55	56	54	55	52	65
90°	0	0	0	0	0	



TEST NUMBER: P737871

CATALOG NUMBER: 14PT-50-PR1-L830

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1843.8	1843.8	1843.8	1843.8	1843.8
2.5°	1843.2	1843.8	1838.5	1847.1	1849.1
5°	1838.5	1839.2	1834.6	1842.5	1844.5
7.5°	1829.3	1830.6	1826.0	1833.9	1835.9
10°	1816.1	1817.4	1812.8	1820.7	1822.7
12.5°	1799.5	1800.2	1796.2	1803.5	1805.5
15°	1777.7	1778.4	1775.1	1781.0	1783.7
17.5°	1752.6	1753.3	1748.6	1755.9	1757.2
20°	1722.2	1722.9	1720.2	1726.2	1726.8
22.5°	1688.5	1689.8	1685.9	1691.2	1691.8
25°	1650.2	1651.5	1646.2	1651.5	1652.2
27.5°	1609.9	1610.5	1605.9	1609.9	1609.2
30°	1562.9	1566.9	1561.0	1559.6	1559.0
32.5°	1514.0	1514.7	1508.8	1507.4	1510.1
35°	1457.9	1458.5	1454.6	1452.6	1448.6
37.5°	1396.4	1396.4	1389.1	1387.8	1387.2
40°	1329.0	1328.3	1323.7	1319.1	1314.5
42.5°	1255.6	1257.0	1247.7	1239.8	1238.5
45°	1175.7	1171.1	1162.5	1153.2	1153.9
47.5°	1081.2	1082.5	1070.6	1063.3	1061.3
50°	983.4	983.4	972.1	964.2	960.2
52.5°	880.9	881.6	871.0	860.4	858.5
55°	776.5	783.1	773.2	760.7	758.0
57.5°	678.7	684.0	674.7	661.5	660.9
60°	588.2	588.8	586.2	573.6	570.3
62.5°	510.8	507.5	506.2	499.6	495.6
65°	438.2	438.8	435.5	428.2	426.9
67.5°	379.3	378.7	372.7	368.1	365.5
70°	321.8	319.9	317.2	313.3	310.6
72.5°	270.3	270.3	268.3	267.0	262.4
75°	225.4	222.7	220.1	221.4	216.1
77.5°	182.4	179.8	177.8	175.1	173.8
80°	138.1	135.5	136.1	132.2	131.5
82.5°	95.8	95.8	94.5	91.2	91.9
85°	54.9	55.5	54.2	54.9	52.2
87.5°	19.8	20.5	21.8	20.5	20.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)