

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: P737802

Luminaire Tested: **14PT-40-PB1-L850**

Issue Date: 2/8/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P737802  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2211-846-1)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/8/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 14PT-40-PB1-L850  
Description: 5000 LUMEN 1X4 PERCEIVE PT TROFFER WITH 5000K, 80 CRI LEDS AND BEVEL LENS

Light Source: -  
Ballast/Driver: -

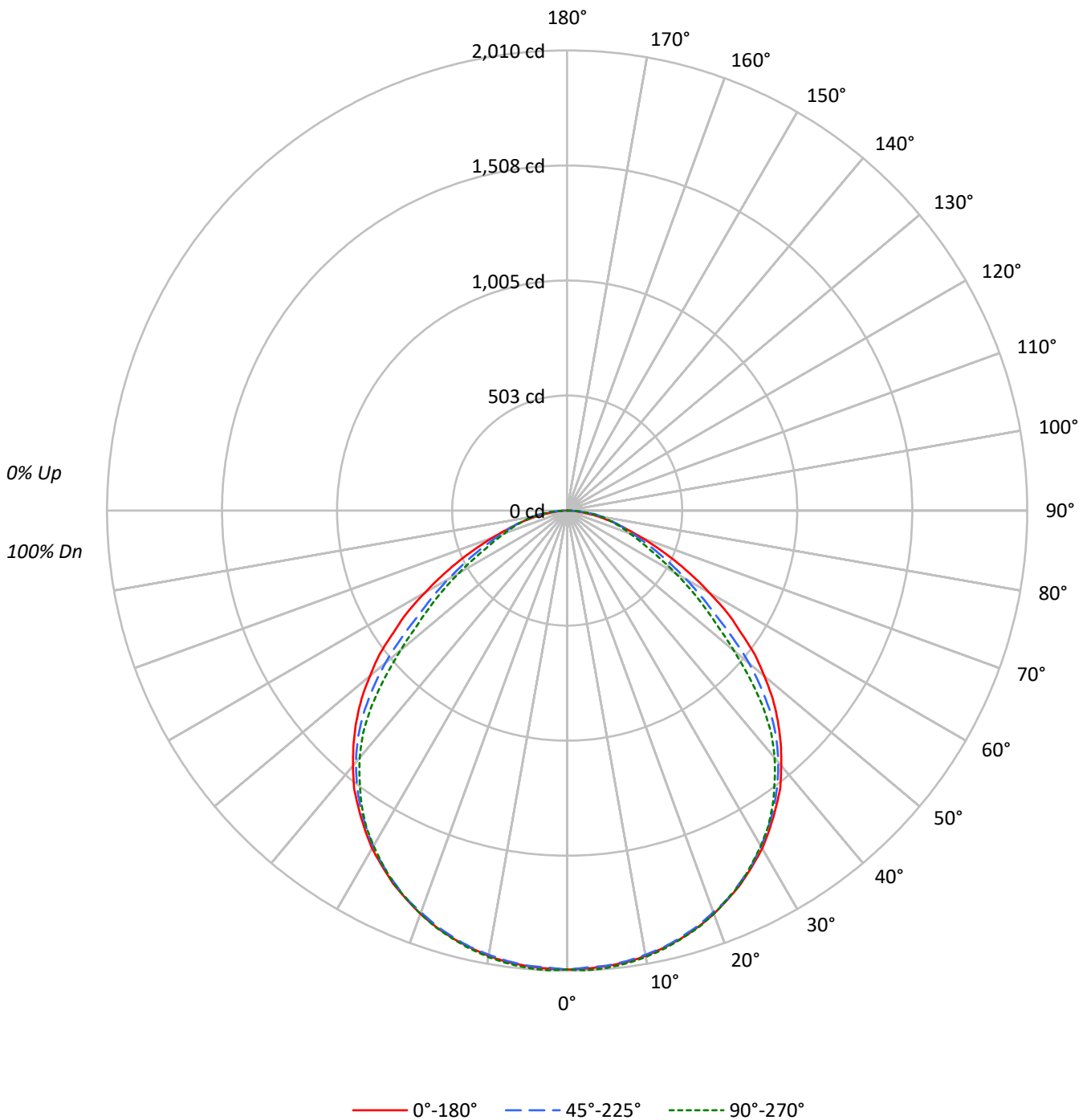
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4999.0 lumens  
Efficiency: N/A  
Efficacy: 122.2 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.25 / 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 (Ain): 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	93	90	91	89	88	86
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75	73
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	64	62
4	85	73	65	59	83	72	64	58	70	63	58	67	62	57	65	60	56	54
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47
6	72	60	51	45	71	59	51	45	57	50	44	55	49	44	54	48	44	42
7	67	54	46	40	66	53	45	40	52	45	39	51	44	39	49	43	39	37
8	63	50	41	36	61	49	41	36	48	41	35	46	40	35	45	39	35	33
9	59	46	38	32	57	45	37	32	44	37	32	43	36	32	42	36	32	30
10	55	42	34	29	54	42	34	29	41	34	29	40	33	29	39	33	29	27

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	6011	6011	6011
5°	6011	6004	6033
10°	6013	5998	6028
15°	6001	5985	6008
20°	5979	5956	5979
25°	5947	5922	5939
30°	5899	5865	5856
35°	5812	5767	5731
40°	5694	5617	5520
45°	5520	5343	5123
50°	5245	4842	4428
55°	4833	4112	3815
60°	4303	3593	3268
65°	3691	3114	2782
70°	3048	2745	2551
75°	2570	2628	2485
80°	2172	2683	2555
85°	1696	2714	2374



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	190.1	3.8
10°-20°	545.4	10.9
20°-30°	826.2	16.5
30°-40°	984.5	19.7
40°-50°	962.8	19.3
50°-60°	728.2	14.6
60°-70°	447.4	8.9
70°-80°	238.4	4.8
80°-90°	76.0	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°	1561.8	31.2
0°-40°	2546.3	50.9
0°-60°	4237.2	84.8
0°-90°	4999.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4999.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2005	2005	2005	2005	2005	
5°	1997	2000	1995	2002	2005	190
15°	1933	1936	1928	1936	1936	546
25°	1798	1795	1790	1793	1795	828
35°	1588	1586	1576	1568	1566	993
45°	1302	1295	1260	1218	1208	1002
55°	925	878	787	742	730	828
65°	520	478	439	404	392	518
75°	222	224	227	220	214	238
85°	49	64	79	74	69	59
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2004.8	2004.8	2004.8	2004.8	2004.8
2.5°	2002.3	2004.8	1997.4	2007.3	2009.7
5°	1997.4	1999.9	1994.9	2002.3	2004.8
7.5°	1990.0	1990.0	1985.1	1992.5	1994.9
10°	1975.2	1975.2	1970.3	1977.7	1980.1
12.5°	1955.5	1955.5	1953.0	1957.9	1960.4
15°	1933.3	1935.7	1928.4	1935.7	1935.7
17.5°	1906.2	1903.7	1901.2	1906.2	1908.6
20°	1874.1	1874.1	1866.7	1871.6	1874.1
22.5°	1837.1	1837.1	1834.6	1837.1	1834.6
25°	1797.7	1795.2	1790.3	1792.7	1795.2
27.5°	1750.8	1750.8	1745.9	1745.9	1743.4
30°	1704.0	1701.5	1694.1	1689.2	1691.6
32.5°	1647.2	1644.8	1637.4	1632.4	1634.9
35°	1588.1	1585.6	1575.7	1568.3	1565.9
37.5°	1528.9	1521.5	1509.1	1499.3	1489.4
40°	1454.9	1447.5	1435.2	1413.0	1410.5
42.5°	1380.9	1373.5	1353.8	1326.7	1319.3
45°	1302.0	1294.6	1260.1	1218.2	1208.3
47.5°	1218.2	1205.8	1151.6	1099.8	1080.1
50°	1124.5	1102.3	1038.2	971.6	949.4
52.5°	1033.2	993.8	909.9	850.7	828.6
55°	924.7	877.9	786.6	742.2	729.9
57.5°	828.6	764.4	690.5	646.1	636.2
60°	717.6	658.4	599.2	559.8	545.0
62.5°	616.5	564.7	515.4	480.9	463.6
65°	520.3	478.4	438.9	404.4	392.1
67.5°	426.6	404.4	372.4	345.2	337.8
70°	347.7	335.4	313.2	300.8	291.0
72.5°	276.2	281.1	266.3	261.4	254.0
75°	221.9	224.4	226.9	219.5	214.5
77.5°	167.7	180.0	189.9	184.9	180.0
80°	125.8	138.1	155.4	148.0	148.0
82.5°	86.3	101.1	115.9	111.0	108.5
85°	49.3	64.1	78.9	74.0	69.0
87.5°	19.7	32.1	34.5	34.5	32.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)