

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: CORELITE

Report Number: P1050404

Luminaire Tested: PTR-14-50-PR1-L840-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050404
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P737735)
Test Lab: INNOVATION CENTER
Issue Date: 7/11/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: PTR-14-50-PR1-L840-UNV-STD-W
Description: 8000 LUMEN 1X4 PERCEIVE PT TROFFER WITH 4000K, 80 CRI LEDS AND RIPPLE LENS

Light Source:
Ballast/Driver: -

Summary

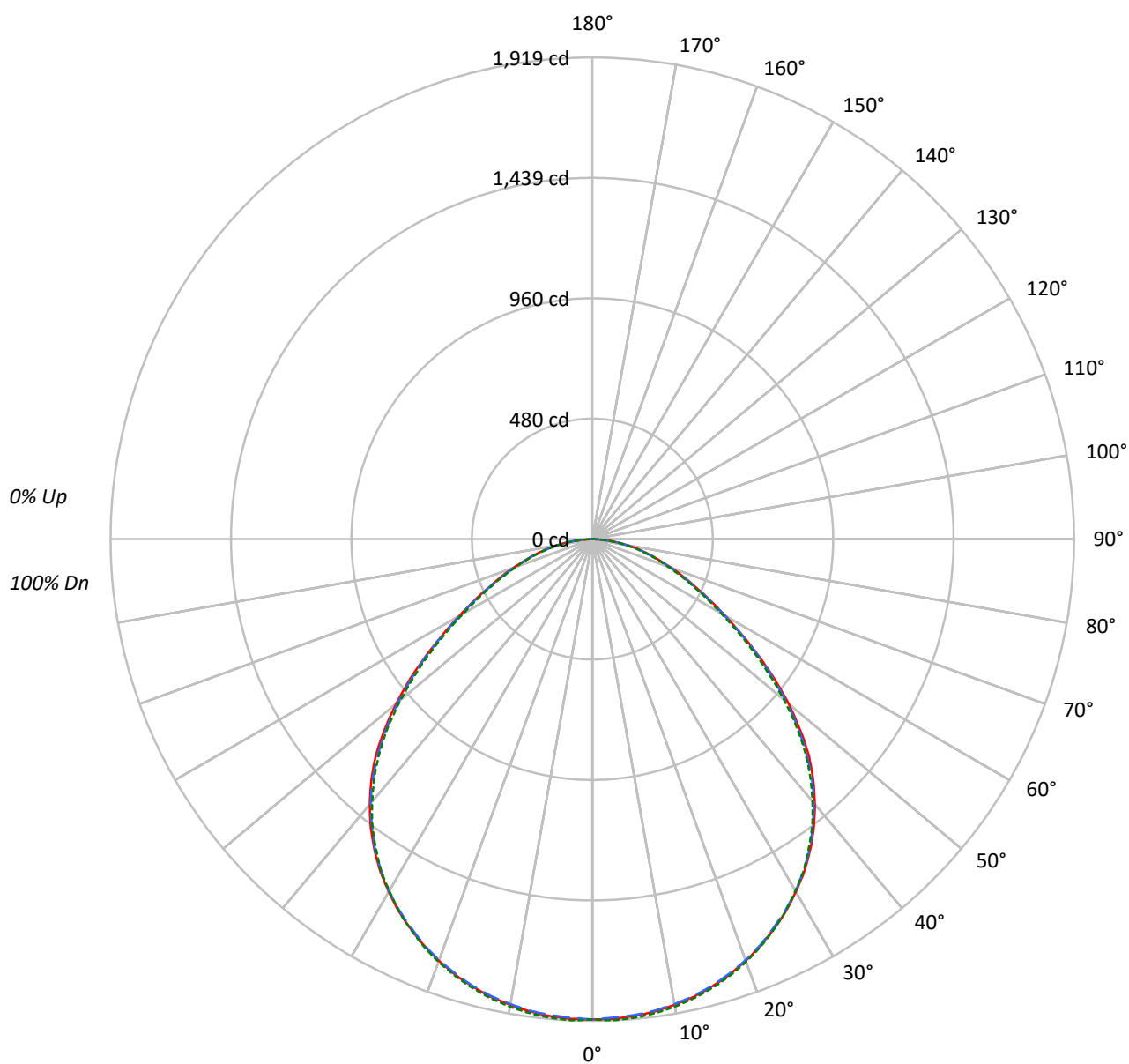
Lumens per Lamp: N/A
Luminaire Lumens: 4839.2 lumens
Efficiency: N/A
Efficacy: 118.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.34
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 40.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor:
Total Harmonic Distortion (THDi):
Frequency (hertz): 60
Stabilization Time: HR
Operation Time: HR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P1050404

CATALOG NUMBER: PTR-14-50-PR1-L840-UNV-STD-W

Luminous Intensity Polar Plot



TEST NUMBER: P1050404

CATALOG NUMBER: PTR-14-50-PR1-L840-UNV-STD-W

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
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°	5149	5149	5149
5°	5154	5143	5171
10°	5150	5141	5169
15°	5140	5132	5156
20°	5119	5112	5132
25°	5085	5073	5091
30°	5040	5033	5028
35°	4970	4959	4938
40°	4845	4826	4791
45°	4643	4591	4558
50°	4272	4224	4172
55°	3781	3765	3691
60°	3286	3274	3185
65°	2896	2878	2821
70°	2627	2590	2537
75°	2433	2376	2332
80°	2221	2190	2117
85°	1754	1738	1670

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4643 cd/sqm

TEST NUMBER: P1050404

CATALOG NUMBER: PTR-14-50-PR1-L840-UNV-STD-W

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.5	3.8
10°-20°	521.0	10.8
20°-30°	789.3	16.3
30°-40°	942.2	19.5
40°-50°	926.6	19.1
50°-60°	716.1	14.8
60°-70°	451.6	9.3
70°-80°	244.3	5.0
80°-90°	66.7	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°	1491.7	30.8
0°-40°	2433.9	50.3
0°-60°	4076.6	84.2
0°-90°	4839.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4839.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1914	1914	1914	1914	1914	
5°	1908	1909	1904	1912	1914	181
15°	1845	1846	1842	1848	1851	521
25°	1713	1714	1708	1714	1715	789
35°	1513	1514	1510	1508	1503	945
45°	1220	1215	1206	1197	1198	934
55°	806	813	802	789	787	723
65°	455	456	452	444	443	458
75°	234	231	228	230	224	249
85°	57	58	56	57	54	68
90°	0	0	0	0	0	

TEST NUMBER: P1050404

CATALOG NUMBER: PTR-14-50-PR1-L840-UNV-STD-W

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1913.5	1913.5	1913.5	1913.5	1913.5
2.5°	1912.7	1913.5	1908.0	1917.0	1919.0
5°	1908.0	1908.8	1903.8	1912.0	1914.2
7.5°	1898.3	1899.8	1895.0	1903.3	1905.3
10°	1884.6	1886.1	1881.3	1889.6	1891.6
12.5°	1867.6	1868.1	1864.1	1871.6	1873.6
15°	1845.0	1845.5	1842.2	1848.2	1850.9
17.5°	1818.8	1819.5	1814.8	1822.3	1823.5
20°	1787.4	1787.9	1785.2	1791.4	1792.1
22.5°	1752.3	1753.8	1749.5	1755.0	1755.8
25°	1712.6	1713.9	1708.4	1713.9	1714.6
27.5°	1670.8	1671.3	1666.5	1670.8	1670.0
30°	1621.9	1626.2	1619.9	1618.5	1618.0
32.5°	1571.4	1571.9	1565.9	1564.4	1567.1
35°	1513.0	1513.5	1509.6	1507.6	1503.3
37.5°	1449.3	1449.3	1441.5	1440.3	1439.5
40°	1379.2	1378.5	1373.8	1369.0	1364.0
42.5°	1303.0	1304.5	1294.8	1286.5	1285.3
45°	1220.0	1215.3	1206.3	1196.8	1197.6
47.5°	1122.1	1123.3	1111.1	1103.4	1101.4
50°	1020.4	1020.4	1008.9	1000.7	996.5
52.5°	914.3	915.0	904.0	893.1	890.8
55°	805.9	812.6	802.4	789.4	786.7
57.5°	704.4	709.9	700.2	686.5	685.8
60°	610.5	611.0	608.3	595.3	591.8
62.5°	530.3	526.8	525.3	518.6	514.3
65°	454.8	455.5	452.0	444.3	443.0
67.5°	393.7	393.0	386.7	382.0	379.3
70°	333.9	331.9	329.2	325.2	322.4
72.5°	280.6	280.6	278.3	277.1	272.4
75°	234.0	231.2	228.5	229.7	224.3
77.5°	189.4	186.6	184.4	181.7	180.4
80°	143.3	140.5	141.3	137.1	136.6
82.5°	99.4	99.4	98.2	94.7	95.4
85°	56.8	57.6	56.3	56.8	54.1
87.5°	20.7	21.2	22.7	21.2	21.2
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)