

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: P1050208

Luminaire Tested: PTR-14-50-PC3-L840-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050208
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P737711)
Test Lab: INNOVATION CENTER
Issue Date: 7/11/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: PTR-14-50-PC3-L840-UNV-STD-W
Description: 8000 LUMEN 1X4 PERCEIVE PT TROFFER WITH 4000K, 80 CRI LEDS AND PARAMID LENS

Light Source:
Ballast/Driver: -

Summary

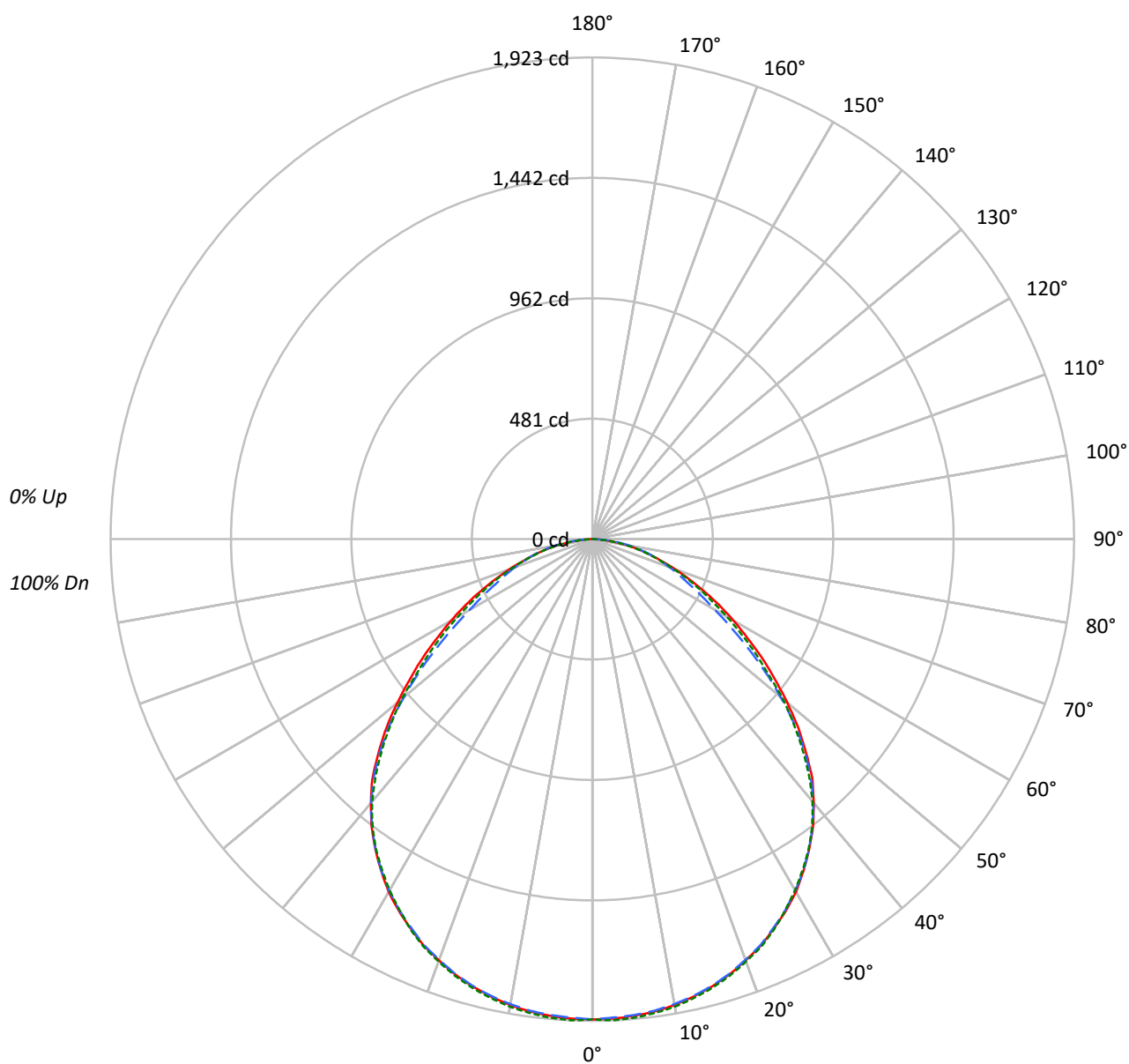
Lumens per Lamp: N/A
Luminaire Lumens: 4834.3 lumens
Efficiency: N/A
Efficacy: 118.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.25 / 1.34
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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: P1050208

CATALOG NUMBER: PTR-14-50-PC3-L840-UNV-STD-W

Luminous Intensity Polar Plot



TEST NUMBER: P1050208

CATALOG NUMBER: PTR-14-50-PC3-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	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	90	80	73	68	77	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	46	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	40	33	29	39	33	29	27		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5160	5160	5160
5°	5162	5152	5182
10°	5161	5152	5180
15°	5149	5143	5166
20°	5126	5118	5140
25°	5091	5083	5103
30°	5053	5036	5028
35°	4961	4957	4948
40°	4830	4823	4801
45°	4594	4560	4513
50°	4252	4109	4155
55°	3880	3566	3726
60°	3499	3042	3337
65°	3127	2721	3000
70°	2774	2574	2698
75°	2454	2495	2404
80°	2117	2382	2104
85°	1584	1886	1584

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 4604 cd/sqm

TEST NUMBER: P1050208

CATALOG NUMBER: PTR-14-50-PC3-L840-UNV-STD-W

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.9	3.8
10°-20°	522.0	10.8
20°-30°	790.4	16.3
30°-40°	942.3	19.5
40°-50°	920.7	19.0
50°-60°	704.0	14.6
60°-70°	452.0	9.4
70°-80°	251.5	5.2
80°-90°	69.5	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°	1494.3	30.9
0°-40°	2436.5	50.4
0°-60°	4061.3	84.0
0°-90°	4834.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4834.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1918	1918	1918	1918	1918	
5°	1911	1912	1907	1916	1918	182
15°	1848	1850	1846	1852	1854	522
25°	1715	1717	1712	1717	1719	791
35°	1510	1512	1509	1508	1506	943
45°	1207	1210	1198	1195	1186	929
55°	827	798	760	770	794	739
65°	491	453	427	442	471	490
75°	236	238	240	237	231	252
85°	51	60	61	59	51	63
90°	0	0	0	0	0	

TEST NUMBER: P1050208

CATALOG NUMBER: PTR-14-50-PC3-L840-UNV-STD-W

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1917.5	1917.5	1917.5	1917.5	1917.5
2.5°	1916.2	1917.0	1912.0	1920.2	1923.0
5°	1910.8	1912.0	1907.3	1916.2	1918.2
7.5°	1902.5	1903.8	1899.1	1908.0	1908.8
10°	1888.8	1889.6	1885.3	1894.3	1895.6
12.5°	1870.4	1872.4	1867.7	1875.9	1876.4
15°	1848.2	1849.7	1846.2	1852.5	1854.4
17.5°	1822.3	1823.1	1819.6	1826.3	1827.0
20°	1789.9	1789.9	1787.2	1794.9	1794.9
22.5°	1757.0	1755.0	1754.3	1757.0	1761.3
25°	1714.7	1716.6	1711.9	1717.4	1718.6
27.5°	1673.5	1673.5	1669.3	1672.0	1668.6
30°	1626.2	1623.5	1620.7	1621.2	1618.0
32.5°	1569.1	1569.1	1567.9	1567.9	1563.6
35°	1510.3	1511.6	1508.8	1508.1	1506.1
37.5°	1447.0	1449.3	1444.3	1443.0	1441.5
40°	1375.0	1375.0	1373.0	1370.3	1366.8
42.5°	1300.3	1300.3	1291.5	1284.6	1279.8
45°	1207.1	1209.8	1198.1	1195.3	1185.9
47.5°	1114.4	1112.4	1096.7	1094.7	1089.2
50°	1015.7	1004.0	981.5	987.5	992.5
52.5°	917.0	902.6	869.7	876.4	884.6
55°	827.1	798.4	760.0	769.5	794.2
57.5°	733.1	694.7	656.4	674.3	704.9
60°	650.1	607.0	565.2	584.3	620.0
62.5°	570.6	524.8	491.1	509.6	539.7
65°	491.1	453.3	427.4	441.6	471.2
67.5°	418.4	393.0	375.3	382.0	405.9
70°	352.6	336.7	327.2	329.2	342.9
72.5°	290.1	286.1	282.6	282.6	283.8
75°	236.0	238.0	240.0	236.7	231.2
77.5°	185.9	192.6	197.6	190.6	183.9
80°	136.6	147.5	153.7	146.0	135.8
82.5°	93.2	105.7	107.6	102.9	91.2
85°	51.3	60.3	61.1	59.1	51.3
87.5°	19.2	22.7	24.7	22.7	19.9
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)