

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: P1050159

Luminaire Tested: PTR-14-50-PB1-L840-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050159
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P737703)
Test Lab: INNOVATION CENTER
Issue Date: 7/11/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: PTR-14-50-PB1-L840-UNV-STD-W
Description: 8000 LUMEN 1X4 PERCEIVE PT TROFFER WITH 4000K, 80 CRI LEDS AND BEVEL LENS

Light Source:
Ballast/Driver: -

Summary

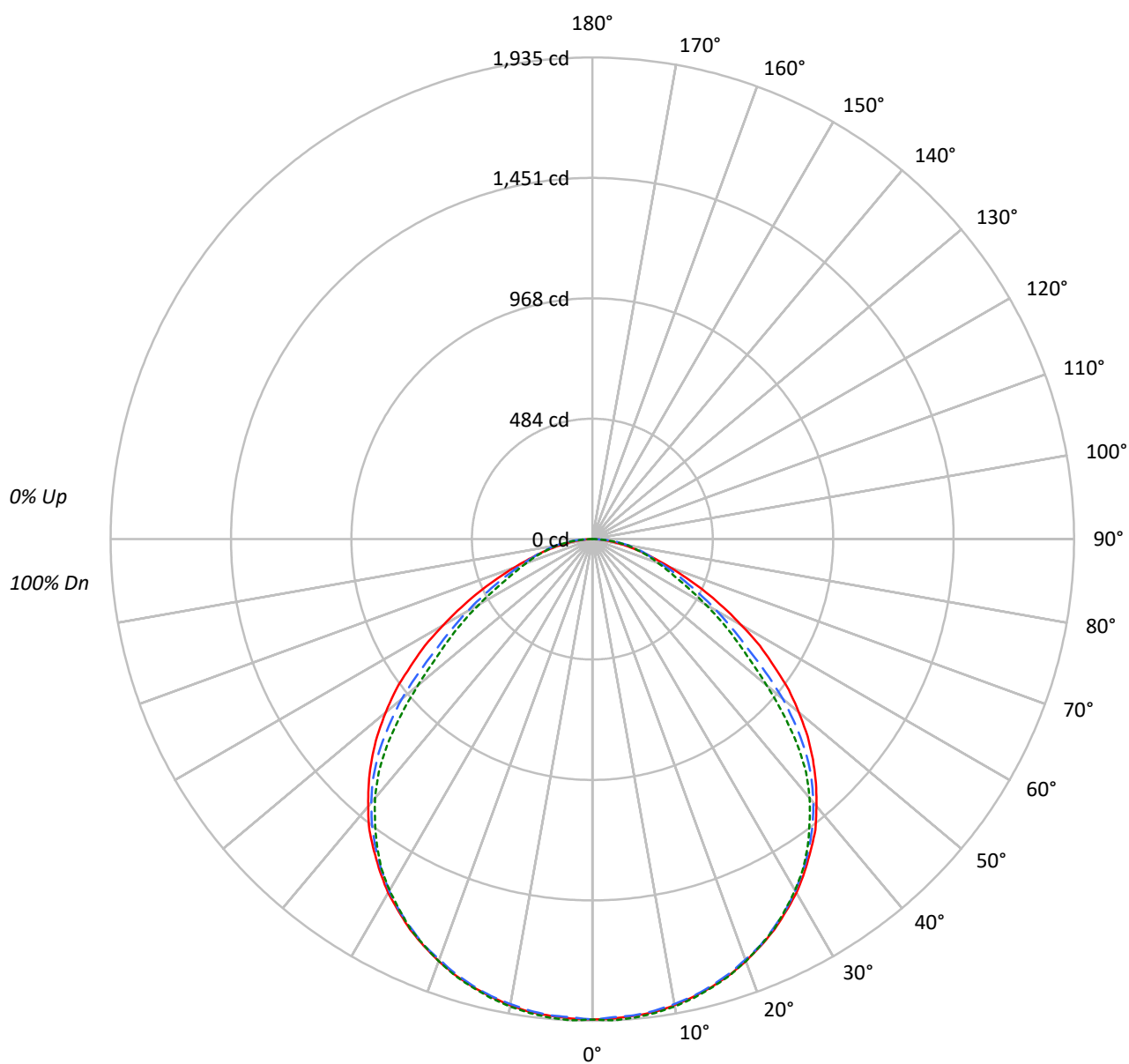
Lumens per Lamp: N/A
Luminaire Lumens: 4812.5 lumens
Efficiency: N/A
Efficacy: 117.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.25 / 1.34
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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: P1050159

CATALOG NUMBER: PTR-14-50-PB1-L840-UNV-STD-W

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
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	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°	5194	5194	5194
5°	5194	5188	5213
10°	5196	5183	5209
15°	5185	5172	5191
20°	5166	5146	5166
25°	5138	5117	5131
30°	5097	5068	5060
35°	5022	4983	4952
40°	4920	4854	4770
45°	4770	4616	4426
50°	4532	4184	3826
55°	4176	3553	3296
60°	3718	3105	2823
65°	3189	2691	2404
70°	2633	2373	2204
75°	2221	2270	2148
80°	1877	2317	2210
85°	1470	2347	2053

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4770 cd/sqm

TEST NUMBER: P1050159

CATALOG NUMBER: PTR-14-50-PB1-L840-UNV-STD-W

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.0	3.8
10°-20°	525.1	10.9
20°-30°	795.4	16.5
30°-40°	947.8	19.7
40°-50°	926.8	19.3
50°-60°	701.0	14.6
60°-70°	430.7	8.9
70°-80°	229.4	4.8
80°-90°	73.2	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°	1503.5	31.2
0°-40°	2451.3	50.9
0°-60°	4079.1	84.8
0°-90°	4812.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4812.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1930	1930	1930	1930	1930	
5°	1923	1925	1920	1928	1930	183
15°	1861	1863	1856	1863	1863	525
25°	1731	1728	1723	1726	1728	797
35°	1529	1526	1517	1510	1508	956
45°	1253	1246	1213	1173	1163	964
55°	890	845	757	714	703	797
65°	501	461	423	389	378	498
75°	214	216	218	211	207	229
85°	48	62	76	71	66	57
90°	0	0	0	0	0	

TEST NUMBER: P1050159

CATALOG NUMBER: PTR-14-50-PB1-L840-UNV-STD-W

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1930.0	1930.0	1930.0	1930.0	1930.0
2.5°	1927.7	1930.0	1922.7	1932.5	1934.7
5°	1922.7	1925.2	1920.5	1927.7	1930.0
7.5°	1915.8	1915.8	1911.0	1918.0	1920.5
10°	1901.6	1901.6	1896.8	1903.8	1906.3
12.5°	1882.6	1882.6	1880.1	1884.9	1887.4
15°	1861.2	1863.4	1856.5	1863.4	1863.4
17.5°	1835.0	1832.8	1830.3	1835.0	1837.5
20°	1804.1	1804.1	1797.1	1801.9	1804.1
22.5°	1768.5	1768.5	1766.2	1768.5	1766.2
25°	1730.6	1728.1	1723.4	1725.9	1728.1
27.5°	1685.5	1685.5	1680.8	1680.8	1678.3
30°	1640.4	1637.9	1630.9	1626.2	1628.4
32.5°	1585.8	1583.3	1576.3	1571.6	1573.8
35°	1528.7	1526.5	1517.0	1509.8	1507.5
37.5°	1471.9	1464.7	1452.7	1443.2	1433.8
40°	1400.6	1393.4	1381.7	1360.3	1357.8
42.5°	1329.4	1322.4	1303.2	1277.3	1270.0
45°	1253.3	1246.4	1213.0	1172.6	1163.1
47.5°	1172.6	1160.9	1108.5	1058.7	1039.8
50°	1082.6	1061.2	999.4	935.3	913.9
52.5°	994.6	956.8	876.0	818.9	797.8
55°	890.2	845.1	757.4	714.5	702.6
57.5°	797.8	736.0	664.7	622.1	612.6
60°	690.8	633.8	576.9	538.8	524.6
62.5°	593.4	543.6	496.2	462.8	446.4
65°	500.9	460.6	422.7	389.3	377.6
67.5°	410.7	389.3	358.4	332.5	325.2
70°	334.7	322.7	301.6	289.6	280.1
72.5°	265.9	270.7	256.4	251.7	244.5
75°	213.6	216.1	218.3	211.3	206.6
77.5°	161.5	173.2	182.7	177.9	173.2
80°	121.1	132.8	149.5	142.6	142.6
82.5°	83.0	97.4	111.7	106.9	104.4
85°	47.6	61.8	76.0	71.3	66.5
87.5°	18.9	30.9	33.1	33.1	30.9
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)