

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: P1050952

Luminaire Tested: 24PTR-40-PR1-L840-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050952
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: 24PTR-40-PR1-L840-UNV-STD-W
Description: 4000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 4000K, 80 CRI LEDS AND RIPPLE LENS

Light Source:
Ballast/Driver: -

Summary

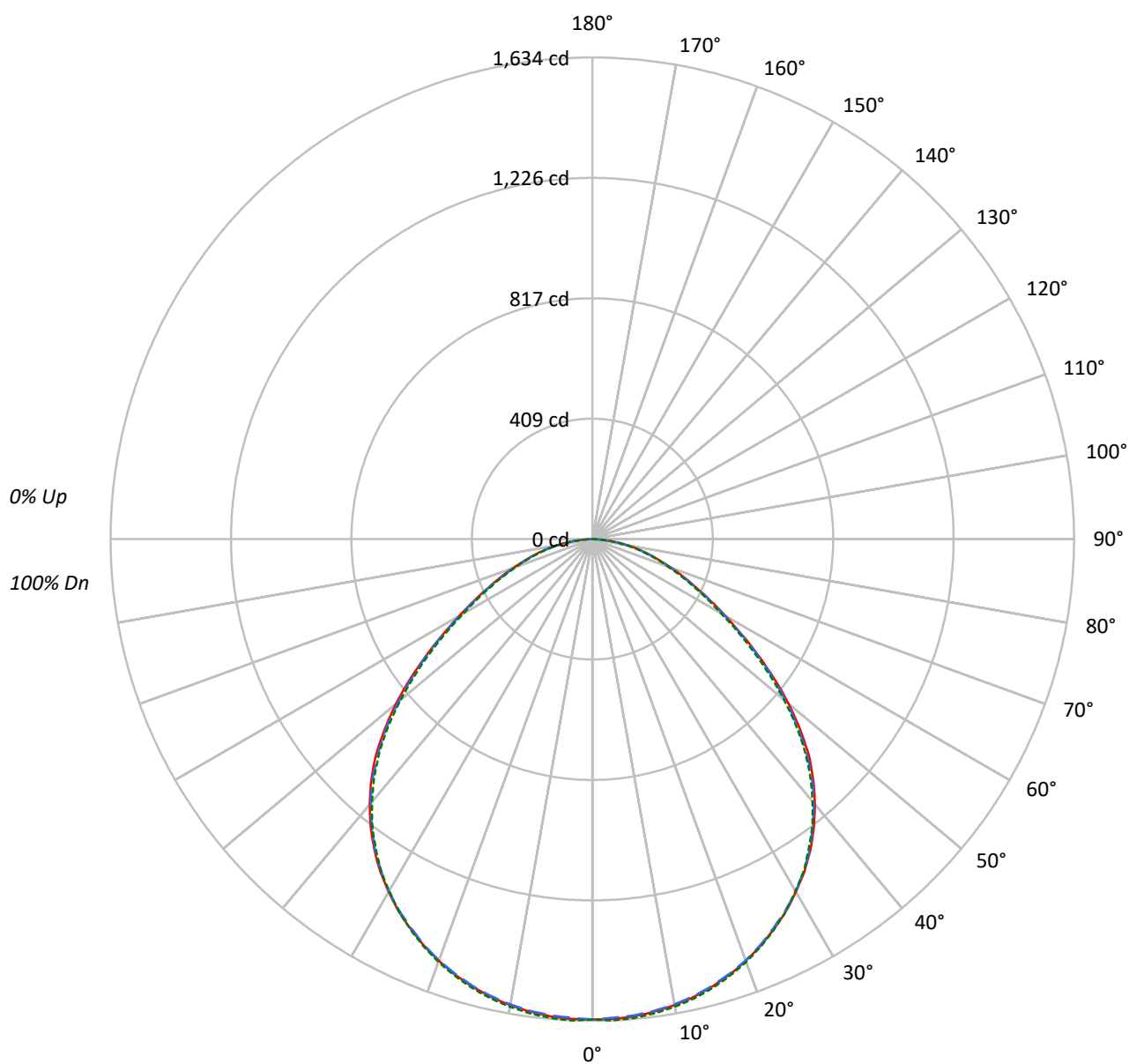
Lumens per Lamp: N/A
Luminaire Lumens: 4121.5 lumens
Efficiency: N/A
Efficacy: 124.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 33
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: P1050952

CATALOG NUMBER: 24PTR-40-PR1-L840-UNV-STD-W

Luminous Intensity Polar Plot



TEST NUMBER: P1050952

CATALOG NUMBER: 24PTR-40-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°	2193	2193	2193
5°	2195	2190	2202
10°	2193	2189	2201
15°	2189	2186	2196
20°	2180	2177	2186
25°	2166	2160	2168
30°	2146	2144	2141
35°	2117	2112	2103
40°	2063	2055	2040
45°	1977	1955	1941
50°	1819	1799	1777
55°	1610	1603	1572
60°	1399	1394	1356
65°	1233	1226	1201
70°	1119	1103	1080
75°	1036	1012	993
80°	945	932	901
85°	747	741	712

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1977 cd/sqm

TEST NUMBER: P1050952

CATALOG NUMBER: 24PTR-40-PR1-L840-UNV-STD-W

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.6	3.8
10°-20°	443.7	10.8
20°-30°	672.2	16.3
30°-40°	802.5	19.5
40°-50°	789.2	19.1
50°-60°	609.9	14.8
60°-70°	384.6	9.3
70°-80°	208.1	5.0
80°-90°	56.8	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°	1270.5	30.8
0°-40°	2073.0	50.3
0°-60°	3472.1	84.2
0°-90°	4121.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4121.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1630	1630	1630	1630	1630	
5°	1625	1626	1621	1628	1630	154
15°	1571	1572	1569	1574	1576	443
25°	1459	1460	1455	1460	1460	672
35°	1289	1289	1286	1284	1280	805
45°	1039	1035	1027	1019	1020	796
55°	686	692	683	672	670	616
65°	387	388	385	378	377	390
75°	199	197	195	196	191	212
85°	48	49	48	48	46	58
90°	0	0	0	0	0	

TEST NUMBER: P1050952

CATALOG NUMBER: 24PTR-40-PR1-L840-UNV-STD-W

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1629.7	1629.7	1629.7	1629.7	1629.7
2.5°	1629.1	1629.7	1625.0	1632.7	1634.4
5°	1625.0	1625.7	1621.4	1628.4	1630.4
7.5°	1616.8	1618.0	1614.0	1621.0	1622.7
10°	1605.1	1606.4	1602.3	1609.3	1611.0
12.5°	1590.7	1591.1	1587.7	1594.1	1595.8
15°	1571.4	1571.8	1569.0	1574.1	1576.4
17.5°	1549.1	1549.7	1545.7	1552.0	1553.1
20°	1522.3	1522.8	1520.4	1525.7	1526.4
22.5°	1492.4	1493.7	1490.1	1494.7	1495.4
25°	1458.7	1459.7	1455.0	1459.7	1460.4
27.5°	1423.0	1423.4	1419.4	1423.0	1422.4
30°	1381.4	1385.0	1379.7	1378.4	1378.0
32.5°	1338.3	1338.7	1333.7	1332.4	1334.7
35°	1288.7	1289.1	1285.7	1284.0	1280.4
37.5°	1234.3	1234.3	1227.8	1226.7	1226.1
40°	1174.7	1174.1	1170.0	1166.0	1161.7
42.5°	1109.8	1111.0	1102.7	1095.7	1094.7
45°	1039.1	1035.0	1027.4	1019.3	1020.0
47.5°	955.7	956.7	946.3	939.8	938.1
50°	869.1	869.1	859.3	852.3	848.7
52.5°	778.7	779.3	770.0	760.6	758.7
55°	686.4	692.1	683.4	672.3	670.0
57.5°	600.0	604.6	596.4	584.7	584.1
60°	520.0	520.4	518.1	507.0	504.0
62.5°	451.6	448.7	447.4	441.7	438.0
65°	387.3	388.0	385.0	378.4	377.3
67.5°	335.3	334.7	329.4	325.3	323.0
70°	284.4	282.7	280.4	277.0	274.6
72.5°	239.0	239.0	237.1	236.0	232.0
75°	199.3	196.9	194.6	195.7	191.0
77.5°	161.3	159.0	157.1	154.7	153.7
80°	122.0	119.7	120.3	116.7	116.3
82.5°	84.7	84.7	83.6	80.6	81.3
85°	48.4	49.0	48.0	48.4	46.1
87.5°	17.6	18.0	19.3	18.0	18.0
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)