

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: P1050567

Luminaire Tested: 24PTR-40-PB1-L840-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050567
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: 24PTR-40-PB1-L840-UNV-STD-W
Description: 4000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 4000K, 80 CRI LEDS AND FROSTED LENS

Light Source:
Ballast/Driver: -

Summary

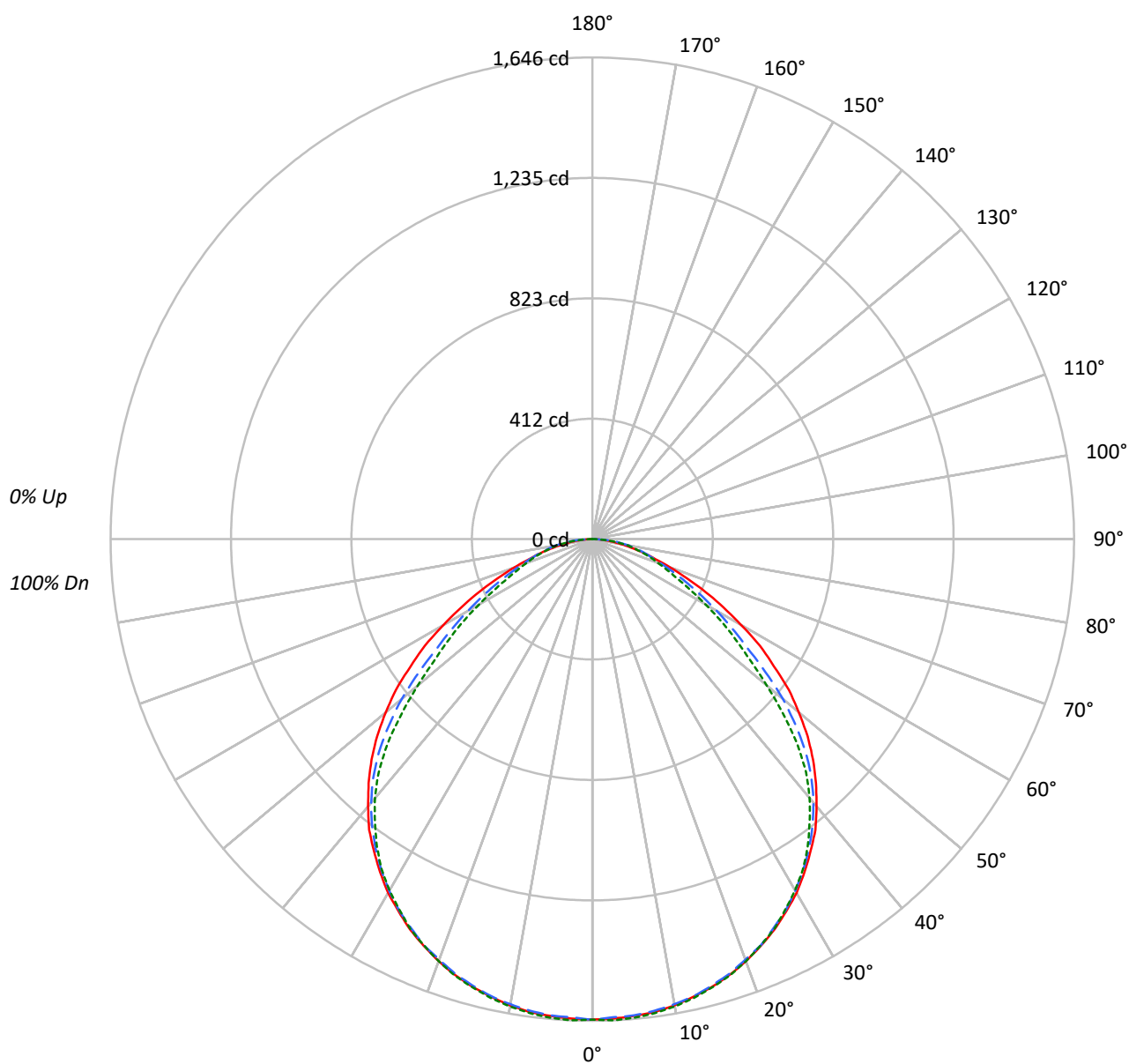
Lumens per Lamp: N/A
Luminaire Lumens: 4094.4 lumens
Efficiency: N/A
Efficacy: 124.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.25 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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: P1050567

CATALOG NUMBER: 24PTR-40-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°	2209	2209	2209
5°	2209	2207	2218
10°	2210	2205	2216
15°	2206	2200	2208
20°	2198	2189	2198
25°	2186	2177	2183
30°	2168	2156	2152
35°	2136	2120	2107
40°	2093	2065	2029
45°	2029	1964	1883
50°	1928	1780	1627
55°	1777	1512	1402
60°	1582	1321	1201
65°	1357	1145	1023
70°	1120	1009	937
75°	945	965	914
80°	798	986	940
85°	625	999	874

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2029 cd/sqm

TEST NUMBER: P1050567

CATALOG NUMBER: 24PTR-40-PB1-L840-UNV-STD-W

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.7	3.8
10°-20°	446.7	10.9
20°-30°	676.7	16.5
30°-40°	806.3	19.7
40°-50°	788.5	19.3
50°-60°	596.4	14.6
60°-70°	366.4	8.9
70°-80°	195.2	4.8
80°-90°	62.3	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°	1279.1	31.2
0°-40°	2085.5	50.9
0°-60°	3470.4	84.8
0°-90°	4094.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4094.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1642	1642	1642	1642	1642	
5°	1636	1638	1634	1640	1642	156
15°	1584	1585	1579	1585	1585	447
25°	1472	1470	1466	1468	1470	678
35°	1301	1299	1291	1284	1283	814
45°	1066	1060	1032	998	990	820
55°	757	719	644	608	598	678
65°	426	392	360	331	321	424
75°	182	184	186	180	176	195
85°	40	53	65	61	57	49
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1642.0	1642.0	1642.0	1642.0	1642.0
2.5°	1640.1	1642.0	1635.8	1644.1	1646.0
5°	1635.8	1638.0	1633.9	1640.1	1642.0
7.5°	1629.9	1629.9	1625.9	1631.8	1633.9
10°	1617.8	1617.8	1613.8	1619.7	1621.8
12.5°	1601.7	1601.7	1599.6	1603.6	1605.7
15°	1583.5	1585.4	1579.4	1585.4	1585.4
17.5°	1561.2	1559.3	1557.2	1561.2	1563.3
20°	1534.9	1534.9	1529.0	1533.0	1534.9
22.5°	1504.6	1504.6	1502.7	1504.6	1502.7
25°	1472.4	1470.2	1466.2	1468.3	1470.2
27.5°	1434.0	1434.0	1430.0	1430.0	1427.8
30°	1395.6	1393.5	1387.5	1383.5	1385.4
32.5°	1349.2	1347.0	1341.1	1337.1	1339.0
35°	1300.6	1298.7	1290.6	1284.5	1282.6
37.5°	1252.3	1246.1	1235.9	1227.9	1219.8
40°	1191.6	1185.5	1175.5	1157.3	1155.2
42.5°	1131.0	1125.0	1108.7	1086.7	1080.5
45°	1066.3	1060.4	1032.0	997.6	989.6
47.5°	997.6	987.7	943.1	900.7	884.6
50°	921.1	902.8	850.3	795.8	777.5
52.5°	846.2	814.0	745.3	696.7	678.7
55°	757.4	719.0	644.4	607.9	597.7
57.5°	678.7	626.1	565.5	529.2	521.2
60°	587.8	539.2	490.9	458.4	446.3
62.5°	504.9	462.4	422.2	393.7	379.8
65°	426.2	391.8	359.6	331.2	321.2
67.5°	349.4	331.2	304.9	282.9	276.7
70°	284.8	274.6	256.6	246.4	238.3
72.5°	226.2	230.3	218.2	214.2	208.0
75°	181.7	183.8	185.7	179.8	175.8
77.5°	137.4	147.4	155.4	151.4	147.4
80°	103.0	113.0	127.2	121.3	121.3
82.5°	70.6	82.9	95.0	91.0	88.8
85°	40.5	52.6	64.7	60.6	56.6
87.5°	16.1	26.3	28.2	28.2	26.3
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)