

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: P1050644

Luminaire Tested: 24PTR-40-PC3-L840-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050644
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: 24PTR-40-PC3-L840-UNV-STD-W
Description: 4000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 4000K, 80 CRI LEDS AND PARAMID LENS

Light Source:
Ballast/Driver: -

Summary

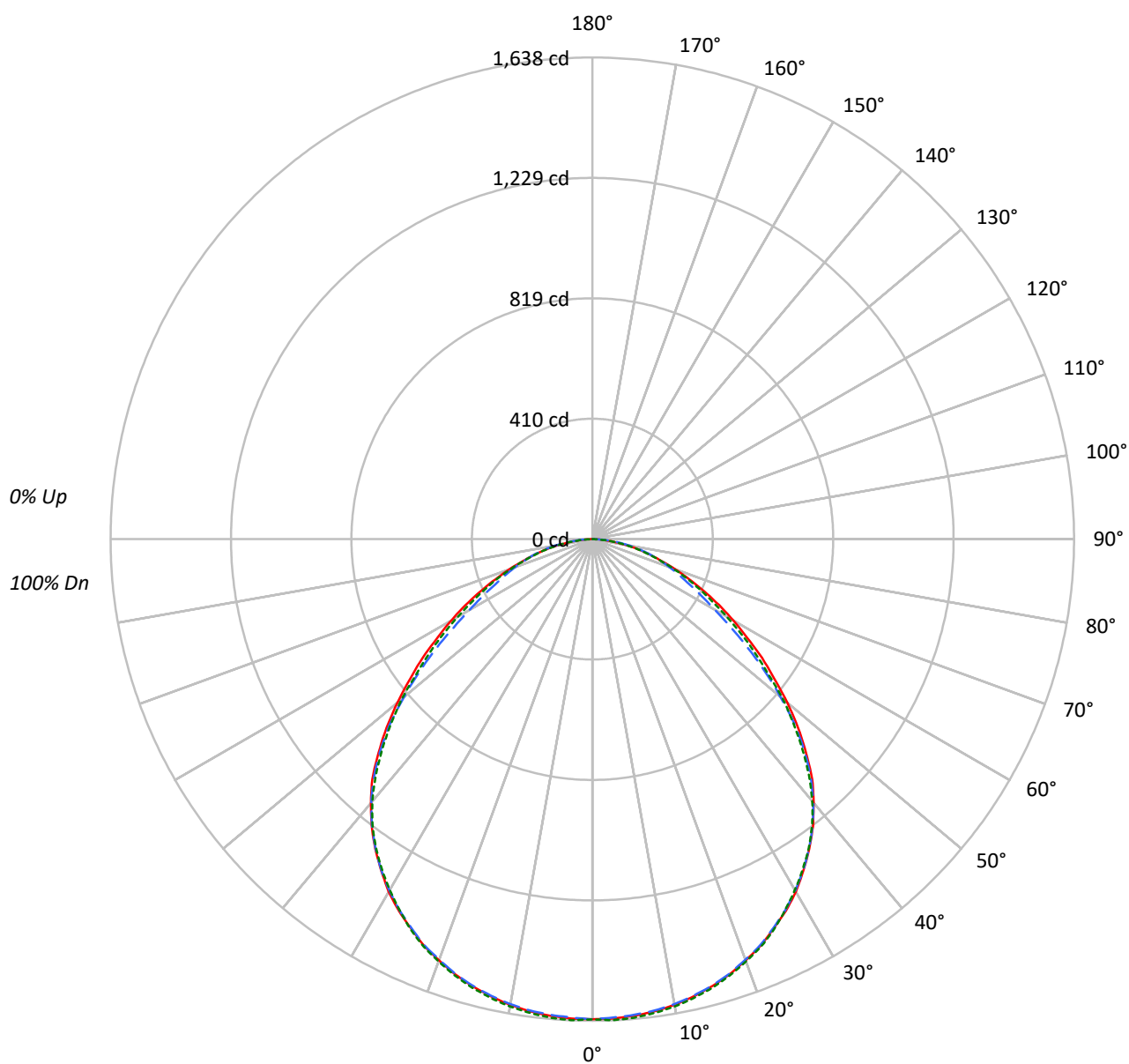
Lumens per Lamp: N/A
Luminaire Lumens: 4116.7 lumens
Efficiency: N/A
Efficacy: 124.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.25 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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: P1050644

CATALOG NUMBER: 24PTR-40-PC3-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	102	102	100
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	87	87	85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	75	75	72
3	92	82	74	68	90	80	73	68	77	71	66	75	70	65	72	68	64	64	64	62
4	85	73	65	58	82	72	64	58	69	63	57	67	61	56	65	60	56	56	56	54
5	78	66	57	51	76	65	56	50	62	55	50	61	54	49	59	53	49	49	49	47
6	72	59	51	45	70	58	50	44	57	49	44	55	49	44	53	48	43	43	43	41
7	67	54	46	40	65	53	45	39	52	44	39	50	44	39	49	43	39	39	39	37
8	62	49	41	35	61	49	41	35	47	40	35	46	40	35	45	39	35	35	35	33
9	58	45	37	32	57	45	37	32	44	37	32	43	36	32	42	36	31	31	31	30
10	55	42	34	29	54	41	34	29	40	34	29	40	33	29	39	33	29	29	29	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2197	2197	2197
5°	2198	2194	2206
10°	2198	2194	2205
15°	2192	2190	2200
20°	2182	2179	2189
25°	2168	2164	2173
30°	2151	2144	2141
35°	2112	2110	2107
40°	2057	2054	2044
45°	1956	1941	1922
50°	1810	1750	1769
55°	1652	1518	1586
60°	1490	1295	1421
65°	1331	1159	1278
70°	1181	1096	1149
75°	1045	1062	1024
80°	901	1014	896
85°	675	803	675

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 1960 cd/sqm

TEST NUMBER: P1050644

CATALOG NUMBER: 24PTR-40-PC3-L840-UNV-STD-W

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.9	3.8
10°-20°	444.5	10.8
20°-30°	673.0	16.3
30°-40°	802.4	19.5
40°-50°	784.1	19.0
50°-60°	599.5	14.6
60°-70°	384.9	9.4
70°-80°	214.1	5.2
80°-90°	59.1	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°	1272.5	30.9
0°-40°	2074.9	50.4
0°-60°	3458.5	84.0
0°-90°	4116.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4116.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1633	1633	1633	1633	1633	
5°	1627	1628	1624	1632	1634	155
15°	1574	1575	1572	1578	1579	444
25°	1460	1462	1458	1462	1464	673
35°	1286	1287	1285	1284	1282	803
45°	1028	1030	1020	1018	1010	791
55°	704	680	647	655	676	630
65°	418	386	364	376	401	417
75°	201	203	204	202	197	215
85°	44	51	52	50	44	54
90°	0	0	0	0	0	

TEST NUMBER: P1050644

CATALOG NUMBER: 24PTR-40-PC3-L840-UNV-STD-W

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1632.9	1632.9	1632.9	1632.9	1632.9
2.5°	1631.8	1632.4	1628.2	1635.2	1637.5
5°	1627.1	1628.2	1624.2	1631.8	1633.5
7.5°	1620.1	1621.2	1617.2	1624.8	1625.4
10°	1608.5	1609.1	1605.5	1613.1	1614.2
12.5°	1592.8	1594.5	1590.4	1597.4	1597.9
15°	1573.9	1575.2	1572.2	1577.5	1579.2
17.5°	1551.8	1552.4	1549.5	1555.2	1555.8
20°	1524.2	1524.2	1521.9	1528.5	1528.5
22.5°	1496.2	1494.5	1493.9	1496.2	1499.8
25°	1460.1	1461.8	1457.8	1462.5	1463.5
27.5°	1425.1	1425.1	1421.5	1423.9	1420.9
30°	1384.8	1382.5	1380.1	1380.6	1377.8
32.5°	1336.2	1336.2	1335.2	1335.2	1331.5
35°	1286.1	1287.2	1284.9	1284.2	1282.5
37.5°	1232.2	1234.2	1229.9	1228.8	1227.6
40°	1170.9	1170.9	1169.2	1166.9	1163.9
42.5°	1107.3	1107.3	1099.8	1093.9	1089.9
45°	1027.9	1030.2	1020.3	1017.9	1009.9
47.5°	949.0	947.3	933.9	932.2	927.5
50°	864.9	855.0	835.9	840.9	845.2
52.5°	780.9	768.6	740.6	746.3	753.3
55°	704.3	679.9	647.2	655.3	676.3
57.5°	624.3	591.6	558.9	574.2	600.3
60°	553.6	516.9	481.3	497.6	528.0
62.5°	485.9	446.9	418.2	433.9	459.6
65°	418.2	386.0	363.9	376.0	401.3
67.5°	356.3	334.6	319.6	325.3	345.7
70°	300.3	286.7	278.6	280.3	292.0
72.5°	247.0	243.6	240.6	240.6	241.7
75°	201.0	202.7	204.3	201.6	196.9
77.5°	158.3	164.0	168.3	162.3	156.6
80°	116.3	125.6	130.9	124.3	115.6
82.5°	79.4	90.0	91.7	87.6	77.7
85°	43.7	51.4	52.0	50.3	43.7
87.5°	16.3	19.3	21.0	19.3	17.0
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)