

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: P1471820

Luminaire Tested: 24PTR-45S-PR1-L835-UNV-STD-W

Issue Date: 6/22/2026

Test Information

Test Method: LM-79-2019
Report Number: P1471820
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P737735)
Test Lab: INNOVATION CENTER
Issue Date: 6/22/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 24PTR-45S-PR1-L835-UNV-STD-W
Description: 4500 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3500K, 80 CRI LEDS AND PR1 Lens White Reces:
Frame
Light Source: -
Ballast/Driver: -

Summary

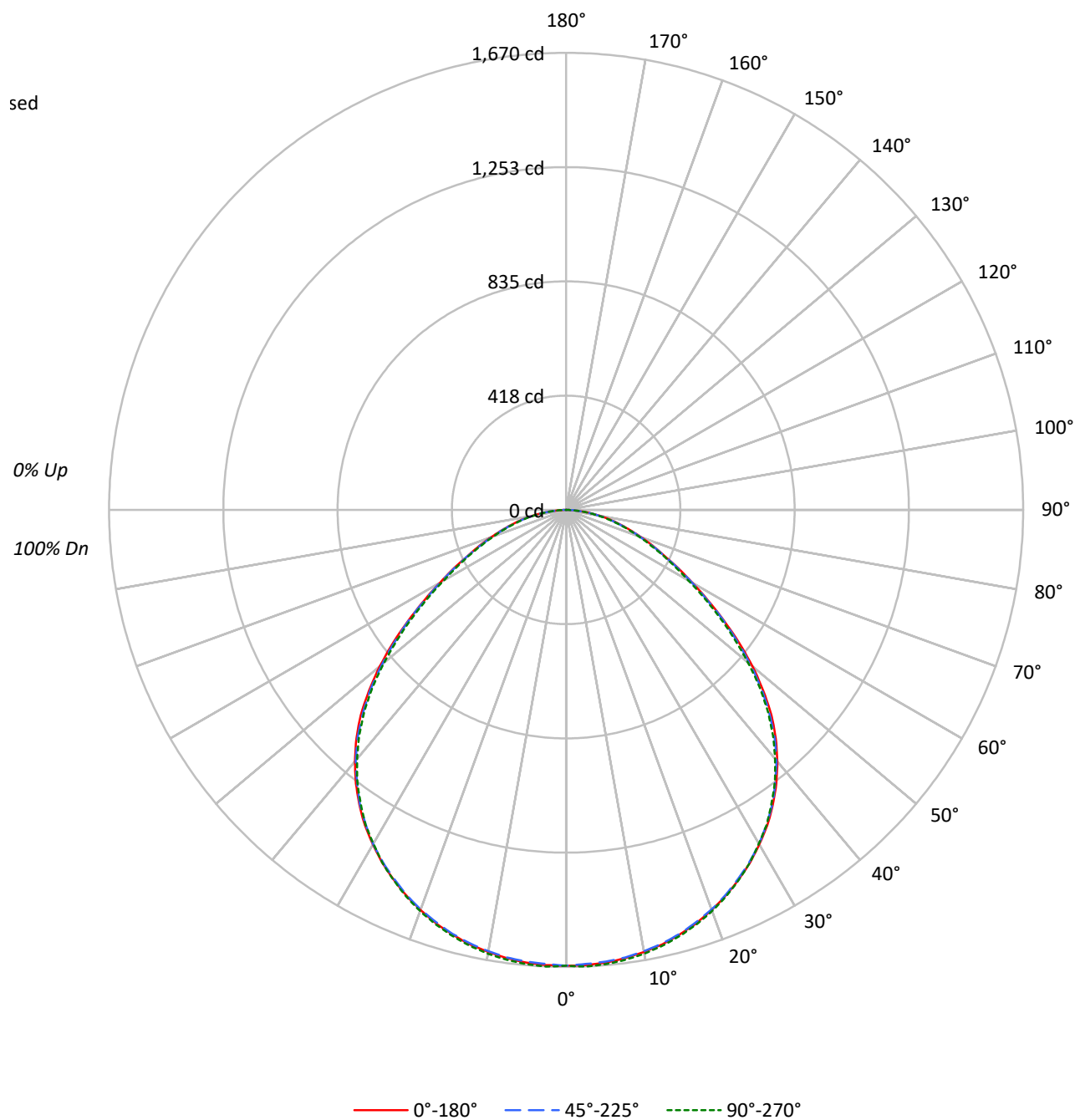
Lumens per Lamp: N/A
Luminaire Lumens: 4212.0 lumens
Efficiency: N/A
Efficacy: 118.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 35.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P1471820

CATALOG NUMBER: 24PTR-45S-PR1-L835-UNV-STD-W

Luminous Intensity Polar Plot



TEST NUMBER: P1471820

CATALOG NUMBER: 24PTR-45S-PR1-L835-UNV-STD-W

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	0
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	88	88	88	85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	75	75	73
3	92	82	74	68	90	80	73	68	78	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	45	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	39	33	29	39	33	29	29	29	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2241	2241	2241
5°	2243	2238	2250
10°	2241	2237	2249
15°	2237	2234	2244
20°	2228	2225	2234
25°	2213	2208	2216
30°	2193	2191	2188
35°	2163	2158	2149
40°	2109	2100	2085
45°	2021	1998	1983
50°	1859	1838	1815
55°	1645	1638	1606
60°	1430	1425	1386
65°	1260	1252	1228
70°	1143	1127	1104
75°	1059	1034	1015
80°	966	953	921
85°	764	756	727

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2021 cd/sqm

TEST NUMBER: P1471820

CATALOG NUMBER: 24PTR-45S-PR1-L835-UNV-STD-W

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.0	3.8
10°-20°	453.5	10.8
20°-30°	687.0	16.3
30°-40°	820.1	19.5
40°-50°	806.5	19.1
50°-60°	623.3	14.8
60°-70°	393.0	9.3
70°-80°	212.6	5.0
80°-90°	58.1	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°	1298.4	30.8
0°-40°	2118.5	50.3
0°-60°	3548.3	84.2
0°-90°	4212.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4212.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1666	1666	1666	1666	1666	
5°	1661	1661	1657	1664	1666	158
15°	1606	1606	1604	1609	1611	453
25°	1491	1492	1487	1492	1492	687
35°	1317	1317	1314	1312	1308	822
45°	1062	1058	1050	1042	1042	813
55°	701	707	698	687	685	629
65°	396	396	393	387	386	398
75°	204	201	199	200	195	216
85°	50	50	49	50	47	59
90°	0	0	0	0	0	

TEST NUMBER: P1471820

CATALOG NUMBER: 24PTR-45S-PR1-L835-UNV-STD-W

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1665.5	1665.5	1665.5	1665.5	1665.5
2.5°	1664.8	1665.5	1660.7	1668.5	1670.3
5°	1660.7	1661.4	1657.0	1664.2	1666.1
7.5°	1652.3	1653.6	1649.4	1656.6	1658.3
10°	1640.3	1641.6	1637.5	1644.7	1646.4
12.5°	1625.6	1626.0	1622.5	1629.1	1630.8
15°	1605.8	1606.3	1603.5	1608.7	1611.1
17.5°	1583.1	1583.7	1579.6	1586.1	1587.2
20°	1555.7	1556.2	1553.8	1559.2	1559.9
22.5°	1525.2	1526.5	1522.8	1527.6	1528.2
25°	1490.7	1491.8	1487.0	1491.8	1492.4
27.5°	1454.2	1454.7	1450.6	1454.2	1453.6
30°	1411.7	1415.4	1410.0	1408.7	1408.3
32.5°	1367.7	1368.1	1362.9	1361.6	1364.0
35°	1317.0	1317.4	1313.9	1312.2	1308.5
37.5°	1261.4	1261.4	1254.7	1253.6	1253.0
40°	1200.5	1199.8	1195.7	1191.6	1187.3
42.5°	1134.1	1135.4	1127.0	1119.8	1118.7
45°	1061.9	1057.8	1050.0	1041.7	1042.4
47.5°	976.7	977.7	967.1	960.4	958.7
50°	888.2	888.2	878.2	871.0	867.3
52.5°	795.8	796.4	786.9	777.3	775.4
55°	701.4	707.3	698.4	687.1	684.7
57.5°	613.1	617.9	609.5	597.5	596.9
60°	531.4	531.8	529.4	518.1	515.1
62.5°	461.5	458.5	457.2	451.3	447.7
65°	395.8	396.5	393.4	386.7	385.6
67.5°	342.7	342.0	336.6	332.5	330.1
70°	290.6	288.9	286.5	283.0	280.7
72.5°	244.2	244.2	242.3	241.2	237.1
75°	203.7	201.3	198.9	200.0	195.2
77.5°	164.8	162.5	160.5	158.1	157.0
80°	124.7	122.3	123.0	119.3	118.9
82.5°	86.5	86.5	85.5	82.4	83.1
85°	49.5	50.1	49.0	49.5	47.1
87.5°	18.0	18.4	19.7	18.4	18.4
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1471820

CATALOG NUMBER: 24PTR-45S-PR1-L835-UNV-STD-W

CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room Dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	13.3	14.9	13.7	15.2	15.5	13.1	14.7	13.5	15.0	15.3
	3H	14.7	16.1	15.1	16.4	16.8	14.5	15.9	14.8	16.2	16.5
	4H	15.2	16.5	15.6	16.9	17.2	15.0	16.3	15.4	16.6	17.0
	6H	15.6	16.8	16.0	17.2	17.6	15.4	16.6	15.8	17.0	17.4
	8H	15.7	16.9	16.2	17.3	17.7	15.5	16.7	15.9	17.1	17.5
	12H	15.8	16.9	16.2	17.3	17.7	15.6	16.7	16.0	17.1	17.5
4H	2H	13.8	15.1	14.2	15.4	15.8	13.6	14.9	14.0	15.3	15.6
	3H	15.3	16.4	15.8	16.8	17.2	15.2	16.3	15.6	16.7	17.1
	4H	16.0	17.0	16.4	17.4	17.8	15.8	16.8	16.3	17.2	17.7
	6H	16.5	17.4	17.0	17.8	18.3	16.4	17.2	16.8	17.7	18.1
	8H	16.7	17.5	17.2	18.0	18.4	16.5	17.3	17.0	17.8	18.2
	12H	16.8	17.6	17.3	18.0	18.5	16.6	17.4	17.1	17.8	18.3
8H	4H	16.2	17.0	16.7	17.5	18.0	16.1	16.9	16.6	17.3	17.8
	6H	16.9	17.6	17.4	18.1	18.5	16.7	17.4	17.2	17.9	18.4
	8H	17.1	17.7	17.7	18.3	18.7	17.0	17.6	17.5	18.1	18.6
	12H	17.3	17.9	17.8	18.4	18.9	17.1	17.7	17.7	18.2	18.7
12H	4H	16.3	17.0	16.7	17.5	17.9	16.1	16.8	16.6	17.3	17.8
	6H	16.9	17.6	17.5	18.0	18.6	16.8	17.4	17.3	17.8	18.4
	8H	17.2	17.8	17.7	18.3	18.8	17.1	17.6	17.6	18.1	18.7

(END OF REPORT)