

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: P1471809

Luminaire Tested: 24PTR-45S-PB1-L835-UNV-STD-B

Issue Date: 6/22/2026

Test Information

Test Method: LM-79-2019
Report Number: P1471809
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P737703)
Test Lab: INNOVATION CENTER
Issue Date: 6/22/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 24PTR-45S-PB1-L835-UNV-STD-B
Description: 4500 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3500K, 80 CRI LEDS AND PB1 Lens Black Recess Frame
Light Source: -
Ballast/Driver: -

Summary

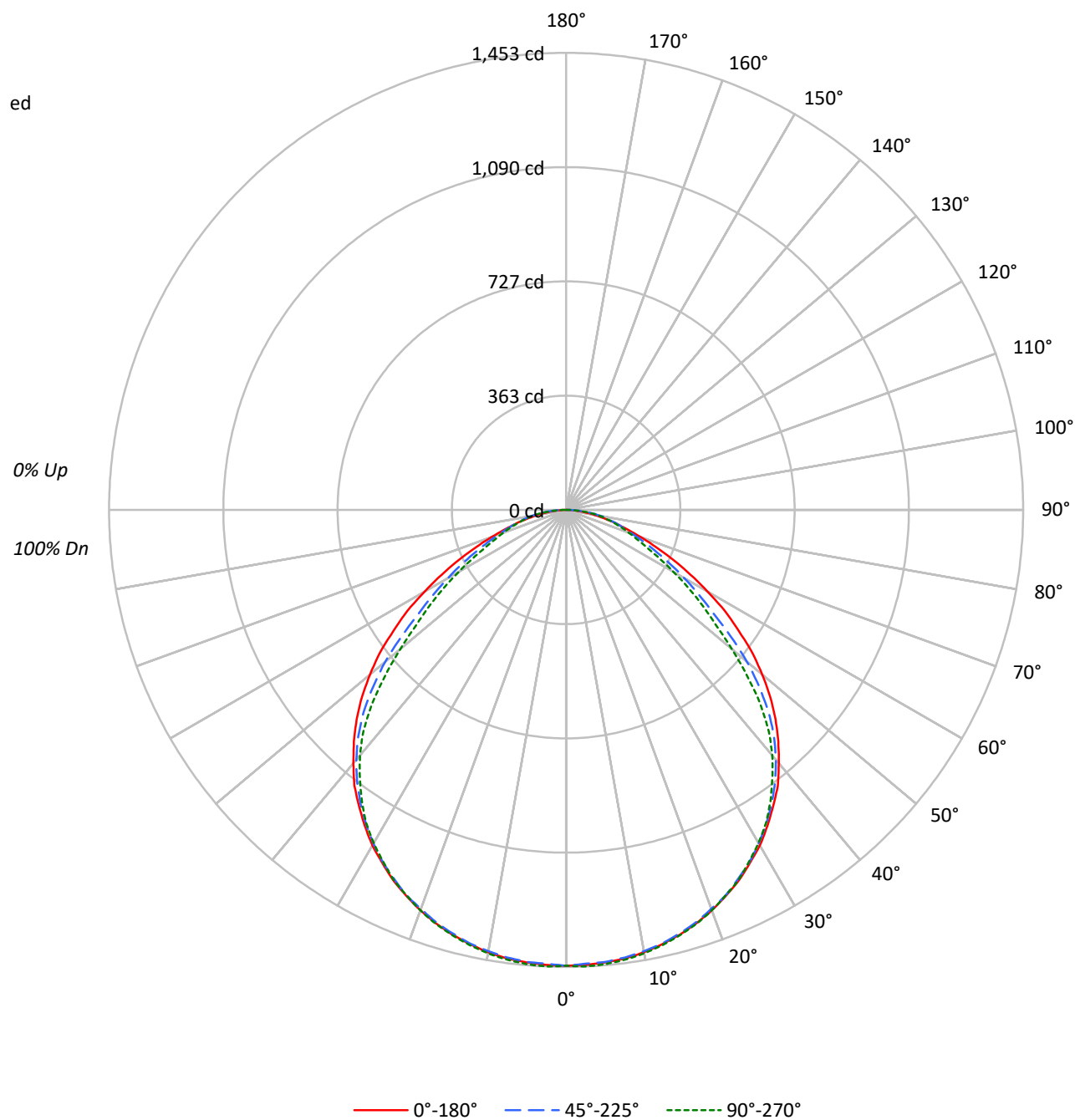
Lumens per Lamp: N/A
Luminaire Lumens: 3614.0 lumens
Efficiency: N/A
Efficacy: 101.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.25 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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: P1471809

CATALOG NUMBER: 24PTR-45S-PB1-L835-UNV-STD-B

Luminous Intensity Polar Plot



TEST NUMBER: P1471809

CATALOG NUMBER: 24PTR-45S-PB1-L835-UNV-STD-B

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	93	90	91	89	88	88	88	86
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75	75	75	73
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	64	64	64	62
4	85	73	65	59	83	72	64	58	70	63	58	67	62	57	65	60	56	56	56	54
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	54	49	49	49	47
6	72	60	51	45	71	59	51	45	57	50	44	55	49	44	54	48	44	44	44	42
7	67	54	46	40	66	53	45	40	52	45	39	51	44	39	49	43	39	39	39	37
8	63	50	41	36	61	49	41	36	48	41	35	46	40	35	45	39	35	35	35	33
9	59	46	38	32	57	45	37	32	44	37	32	43	36	32	42	36	32	32	32	30
10	55	42	34	29	54	42	34	29	41	34	29	40	33	29	39	33	29	29	29	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1950	1950	1950
5°	1950	1948	1957
10°	1951	1946	1956
15°	1947	1942	1949
20°	1940	1932	1940
25°	1929	1921	1927
30°	1914	1903	1900
35°	1886	1871	1860
40°	1847	1822	1791
45°	1791	1733	1662
50°	1702	1571	1437
55°	1568	1334	1238
60°	1396	1166	1060
65°	1198	1011	903
70°	989	891	828
75°	834	852	807
80°	705	870	830
85°	551	881	772

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1791 cd/sqm

TEST NUMBER: P1471809

CATALOG NUMBER: 24PTR-45S-PB1-L835-UNV-STD-B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.4	3.8
10°-20°	394.3	10.9
20°-30°	597.3	16.5
30°-40°	711.7	19.7
40°-50°	696.0	19.3
50°-60°	526.4	14.6
60°-70°	323.4	8.9
70°-80°	172.3	4.8
80°-90°	55.0	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°	1129.0	31.2
0°-40°	1840.8	50.9
0°-60°	3063.2	84.8
0°-90°	3614.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3614.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1449	1449	1449	1449	1449	
5°	1444	1446	1442	1448	1449	137
15°	1398	1399	1394	1399	1399	394
25°	1300	1298	1294	1296	1298	598
35°	1148	1146	1139	1134	1132	718
45°	941	936	911	881	873	724
55°	668	635	569	537	528	599
65°	376	346	317	292	284	374
75°	160	162	164	159	155	172
85°	36	46	57	54	50	43
90°	0	0	0	0	0	

TEST NUMBER: P1471809

CATALOG NUMBER: 24PTR-45S-PB1-L835-UNV-STD-B

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1449.3	1449.3	1449.3	1449.3	1449.3
2.5°	1447.6	1449.3	1443.9	1451.2	1452.9
5°	1443.9	1445.8	1442.2	1447.6	1449.3
7.5°	1438.7	1438.7	1435.1	1440.3	1442.2
10°	1428.0	1428.0	1424.4	1429.7	1431.5
12.5°	1413.8	1413.8	1411.9	1415.4	1417.3
15°	1397.7	1399.3	1394.1	1399.3	1399.3
17.5°	1378.0	1376.3	1374.5	1378.0	1379.9
20°	1354.8	1354.8	1349.6	1353.1	1354.8
22.5°	1328.0	1328.0	1326.4	1328.0	1326.4
25°	1299.6	1297.7	1294.2	1296.0	1297.7
27.5°	1265.7	1265.7	1262.2	1262.2	1260.3
30°	1231.8	1230.0	1224.7	1221.2	1222.9
32.5°	1190.9	1189.0	1183.7	1180.2	1181.9
35°	1148.0	1146.3	1139.2	1133.8	1132.1
37.5°	1105.3	1099.9	1090.9	1083.8	1076.7
40°	1051.8	1046.4	1037.6	1021.5	1019.6
42.5°	998.3	993.0	978.6	959.2	953.7
45°	941.2	936.0	910.9	880.6	873.4
47.5°	880.6	871.8	832.5	795.0	780.8
50°	813.0	796.9	750.5	702.4	686.3
52.5°	746.9	718.5	657.8	615.0	599.1
55°	668.5	634.6	568.8	536.6	527.6
57.5°	599.1	552.7	499.1	467.1	460.0
60°	518.8	475.9	433.3	404.6	394.0
62.5°	445.6	408.2	372.6	347.5	335.2
65°	376.2	345.9	317.4	292.3	283.5
67.5°	308.4	292.3	269.1	249.7	244.2
70°	251.3	242.4	226.5	217.5	210.4
72.5°	199.7	203.2	192.6	189.0	183.6
75°	160.4	162.3	163.9	158.7	155.2
77.5°	121.3	130.1	137.2	133.6	130.1
80°	91.0	99.8	112.3	107.1	107.1
82.5°	62.3	73.2	83.8	80.3	78.4
85°	35.7	46.4	57.1	53.5	50.0
87.5°	14.2	23.2	24.9	24.9	23.2
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1471809

CATALOG NUMBER: 24PTR-45S-PB1-L835-UNV-STD-B

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	13.2	14.8	13.6	15.1	15.4	11.9	13.5	12.3	13.8	14.1
	3H	14.4	15.8	14.8	16.2	16.5	13.2	14.6	13.6	14.9	15.3
	4H	14.9	16.2	15.3	16.5	16.9	13.7	15.0	14.1	15.4	15.8
	6H	15.1	16.4	15.6	16.7	17.1	14.2	15.4	14.6	15.8	16.2
	8H	15.2	16.4	15.7	16.8	17.2	14.4	15.6	14.8	16.0	16.4
	12H	15.3	16.4	15.7	16.8	17.2	14.6	15.7	15.0	16.0	16.5
4H	2H	13.5	14.8	13.9	15.2	15.6	12.4	13.8	12.8	14.1	14.5
	3H	15.0	16.1	15.4	16.5	16.9	13.9	15.0	14.4	15.4	15.8
	4H	15.5	16.5	16.0	16.9	17.4	14.6	15.6	15.1	16.0	16.5
	6H	16.0	16.8	16.4	17.3	17.7	15.3	16.1	15.7	16.6	17.0
	8H	16.1	16.9	16.6	17.3	17.8	15.5	16.3	16.0	16.8	17.2
	12H	16.2	16.9	16.7	17.4	17.8	15.7	16.4	16.2	16.9	17.4
8H	4H	15.7	16.5	16.2	17.0	17.4	14.9	15.7	15.4	16.2	16.6
	6H	16.3	17.0	16.8	17.4	17.9	15.7	16.4	16.2	16.9	17.4
	8H	16.5	17.1	17.0	17.6	18.1	16.1	16.7	16.6	17.2	17.7
	12H	16.7	17.2	17.2	17.7	18.2	16.4	16.9	16.9	17.4	17.9
12H	4H	15.8	16.5	16.2	17.0	17.4	15.0	15.7	15.4	16.2	16.6
	6H	16.4	17.0	16.9	17.4	18.0	15.8	16.4	16.3	16.9	17.4
	8H	16.6	17.1	17.1	17.6	18.2	16.2	16.7	16.7	17.2	17.8

(END OF REPORT)