

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: P1471735

Luminaire Tested: 22PTR-45S-PLG-L835-UNV-STD-B

Issue Date: 6/22/2026

Test Information

Test Method: LM-79-2019
Report Number: P1471735
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2409-224-3)
Test Lab: INNOVATION CENTER
Issue Date: 6/22/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 22PTR-45S-PLG-L835-UNV-STD-B
Description: 4500 LUMEN 2X2 PERCEIVE PT TROFFER WITH 3500K, 80 CRI LEDS AND PLG Lens Black Recess Frame
Light Source: -
Ballast/Driver: -

Summary

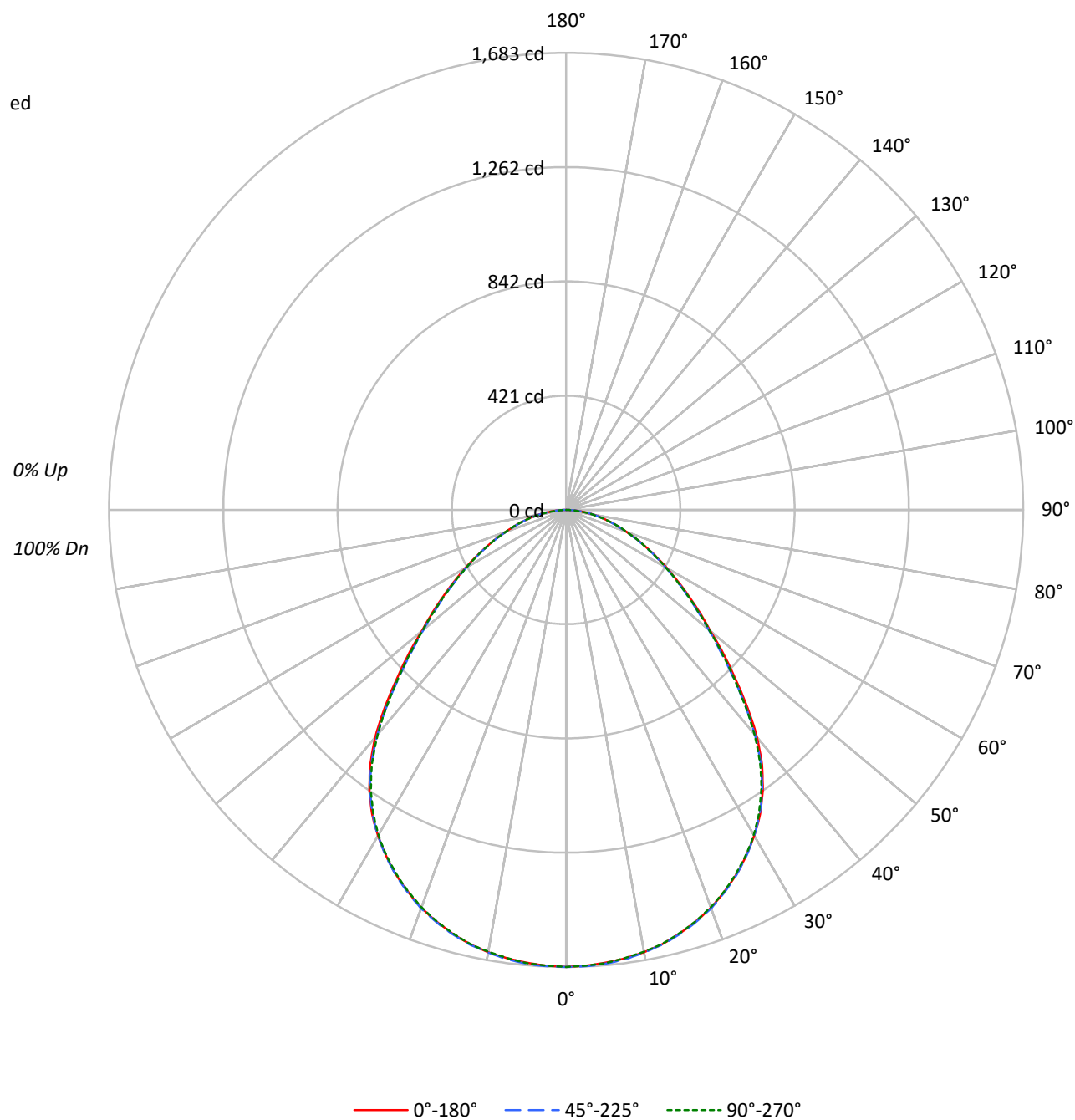
Lumens per Lamp: N/A
Luminaire Lumens: 3793.0 lumens
Efficiency: N/A
Efficacy: 105.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.26
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 36.1
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

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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					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	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86	84	86
2	101	94	87	82	99	92	86	81	88	84	79	85	81	78	82	79	76	74	72	74
3	93	83	76	70	91	82	75	69	79	73	68	76	71	67	74	69	66	64	62	64
4	86	75	67	60	84	73	66	60	71	64	59	69	63	58	67	62	58	56	54	56
5	79	67	59	53	77	66	58	53	64	57	52	62	56	51	61	55	51	49	47	49
6	74	61	53	47	72	60	52	47	58	51	46	57	51	46	55	50	45	43	41	43
7	69	56	48	42	67	55	47	42	54	46	41	52	46	41	51	45	41	39	37	39
8	64	51	43	38	62	51	43	38	49	42	37	48	42	37	47	41	37	35	33	35
9	60	47	39	34	59	47	39	34	46	39	34	44	38	34	43	38	34	32	30	32
10	56	44	36	31	55	43	36	31	42	36	31	41	35	31	40	35	31	29	27	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4530	4530	4530
5°	4521	4531	4525
10°	4518	4521	4515
15°	4500	4506	4496
20°	4465	4472	4458
25°	4402	4406	4391
30°	4306	4306	4295
35°	4148	4137	4117
40°	3844	3802	3790
45°	3360	3305	3319
50°	2901	2866	2881
55°	2578	2539	2545
60°	2308	2276	2276
65°	2069	2054	2062
70°	1861	1843	1861
75°	1727	1702	1727
80°	1610	1592	1537
85°	1365	1365	1216

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3360 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.4	4.2
10°-20°	456.0	12.0
20°-30°	682.3	18.0
30°-40°	781.8	20.6
40°-50°	676.1	17.8
50°-60°	489.3	12.9
60°-70°	322.3	8.5
70°-80°	175.4	4.6
80°-90°	50.3	1.3
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°	1297.7	34.2
0°-40°	2079.5	54.8
0°-60°	3245.0	85.6
0°-90°	3793.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3793.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1683	1683	1683	1683	1683	
5°	1674	1677	1677	1677	1675	159
15°	1615	1616	1618	1620	1614	456
25°	1483	1483	1484	1485	1479	682
35°	1263	1262	1259	1258	1253	784
45°	883	880	868	867	872	684
55°	550	547	541	538	542	495
65°	325	327	323	320	324	324
75°	166	166	164	164	166	177
85°	44	44	44	45	39	51
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1683.3	1683.3	1683.3	1683.3	1683.3
2.5°	1679.7	1683.3	1682.1	1683.3	1679.7
5°	1673.8	1677.4	1677.4	1677.4	1675.0
7.5°	1665.4	1667.8	1669.0	1670.2	1664.2
10°	1653.5	1655.8	1654.7	1657.0	1652.3
12.5°	1637.9	1637.9	1639.1	1641.5	1636.7
15°	1615.2	1616.4	1617.6	1620.0	1614.0
17.5°	1588.9	1590.1	1591.3	1592.5	1587.8
20°	1559.1	1559.1	1561.5	1562.7	1556.7
22.5°	1522.0	1522.0	1524.4	1528.0	1520.8
25°	1482.6	1482.6	1483.8	1485.0	1479.0
27.5°	1436.0	1436.0	1437.2	1440.8	1433.6
30°	1385.8	1384.7	1385.8	1387.0	1382.3
32.5°	1329.7	1328.5	1327.3	1328.5	1322.5
35°	1262.8	1261.6	1259.2	1258.0	1253.2
37.5°	1185.1	1182.7	1178.0	1178.0	1173.2
40°	1094.3	1088.4	1082.4	1080.0	1078.8
42.5°	989.2	984.4	976.1	974.9	974.9
45°	882.9	880.5	868.5	867.3	872.1
47.5°	787.3	781.3	770.6	768.2	775.4
50°	692.9	694.1	684.6	681.0	688.1
52.5°	618.9	616.5	608.1	605.7	611.7
55°	549.6	547.2	541.2	537.6	542.4
57.5°	486.2	485.0	479.1	477.9	480.3
60°	428.9	427.7	422.9	421.7	422.9
62.5°	375.1	375.1	370.4	368.0	371.6
65°	325.0	327.3	322.6	320.2	323.8
67.5°	279.6	281.9	277.2	274.8	279.6
70°	236.5	238.9	234.2	231.8	236.5
72.5°	199.5	200.7	197.1	195.9	201.9
75°	166.1	166.1	163.7	163.7	166.1
77.5°	135.0	133.8	132.6	132.6	130.2
80°	103.9	102.7	102.7	102.7	99.2
82.5°	74.1	71.7	72.9	74.1	68.1
85°	44.2	44.2	44.2	45.4	39.4
87.5°	17.9	17.9	16.7	17.9	15.5
90°	0.0	0.0	0.0	0.0	0.0

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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	14.5	16.0	14.9	16.3	16.7	14.4	15.9	14.8	16.2	16.6
	3H	16.0	17.3	16.3	17.6	18.0	15.9	17.2	16.2	17.5	17.9
	4H	16.5	17.8	16.9	18.1	18.5	16.4	17.7	16.8	18.0	18.4
	6H	16.9	18.1	17.3	18.5	18.9	16.8	18.0	17.2	18.4	18.8
	8H	17.1	18.2	17.5	18.6	19.0	17.0	18.1	17.4	18.5	18.9
	12H	17.2	18.2	17.6	18.6	19.0	17.0	18.1	17.5	18.5	18.9
4H	2H	15.0	16.3	15.4	16.6	17.0	14.9	16.2	15.3	16.5	16.9
	3H	16.7	17.7	17.1	18.1	18.5	16.6	17.6	17.0	18.0	18.4
	4H	17.3	18.3	17.8	18.7	19.1	17.2	18.2	17.7	18.6	19.1
	6H	17.9	18.7	18.4	19.2	19.6	17.8	18.6	18.3	19.1	19.5
	8H	18.1	18.9	18.6	19.3	19.8	18.0	18.8	18.4	19.2	19.7
	12H	18.2	18.9	18.7	19.4	19.9	18.1	18.8	18.6	19.3	19.7
8H	4H	17.6	18.3	18.0	18.8	19.3	17.5	18.3	18.0	18.7	19.2
	6H	18.3	18.9	18.8	19.4	19.9	18.2	18.8	18.7	19.3	19.8
	8H	18.5	19.1	19.0	19.6	20.1	18.4	19.0	19.0	19.5	20.0
	12H	18.7	19.2	19.2	19.7	20.3	18.6	19.1	19.1	19.6	20.2
12H	4H	17.6	18.3	18.1	18.8	19.2	17.5	18.2	18.0	18.7	19.2
	6H	18.3	18.9	18.8	19.4	19.9	18.2	18.8	18.8	19.3	19.8
	8H	18.6	19.1	19.1	19.6	20.2	18.5	19.1	19.1	19.5	20.1

(END OF REPORT)