Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

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: P1471810

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

Issue Date: 6/22/2026

Test Information

Test Method:	LM-79-2019
Report Number:	P1471810
	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-W
Description:	4500 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3500K, 80 CRI LEDS AND PB1 Lens White Reces Frame
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	4186.9 lumens
Efficiency:	N/A
Efficacy:	117.6 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

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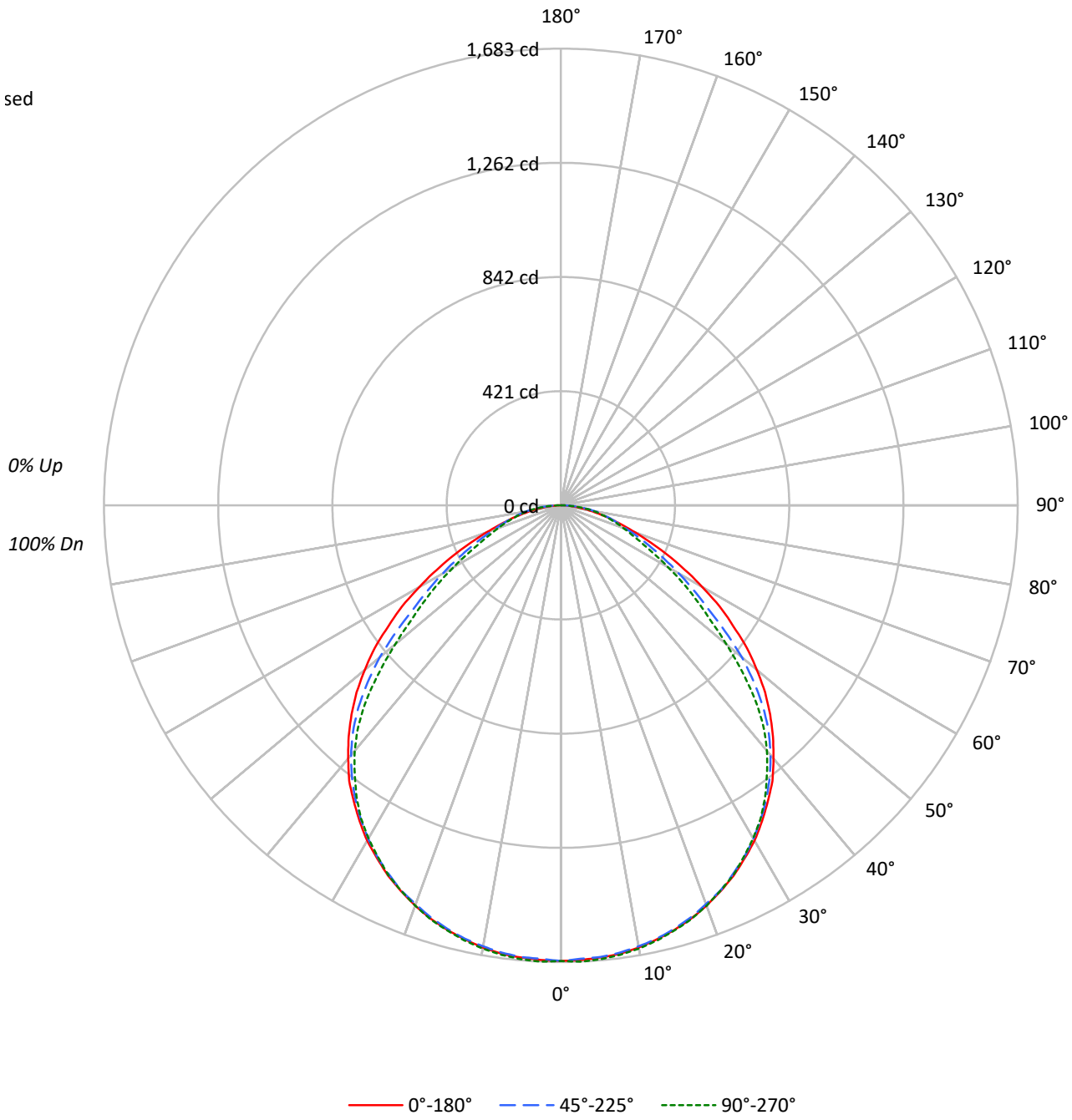
Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20			20			20			20
RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
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°	2259	2259	2259
5°	2259	2257	2268
10°	2260	2255	2266
15°	2255	2250	2258
20°	2247	2239	2247
25°	2235	2226	2232
30°	2217	2204	2201
35°	2185	2168	2154
40°	2140	2111	2075
45°	2075	2008	1925
50°	1972	1820	1664
55°	1817	1546	1434
60°	1617	1351	1228
65°	1387	1171	1046
70°	1146	1032	959
75°	966	987	934
80°	817	1008	961
85°	639	1020	894

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 2075 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.2	3.8
10°-20°	456.8	10.9
20°-30°	692.0	16.5
30°-40°	824.6	19.7
40°-50°	806.3	19.3
50°-60°	609.9	14.6
60°-70°	374.7	8.9
70°-80°	199.6	4.8
80°-90°	63.7	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°	1308.0	31.2
0°-40°	2132.6	50.9
0°-60°	3548.9	84.8
0°-90°	4186.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4186.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1679	1679	1679	1679	1679	
5°	1673	1675	1671	1677	1679	159
15°	1619	1621	1615	1621	1621	457
25°	1506	1504	1499	1502	1504	693
35°	1330	1328	1320	1314	1312	832
45°	1090	1084	1055	1020	1012	839
55°	774	735	659	622	611	694
65°	436	401	368	339	328	434
75°	186	188	190	184	180	199
85°	41	54	66	62	58	50
90°	0	0	0	0	0	

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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1679.1	1679.1	1679.1	1679.1	*1679.1*
2.5°	*1677.1*	*1679.1*	*1672.8*	*1681.3*	*1683.2*
5°	1672.8	1675.0	1670.8	1677.1	*1679.1*
7.5°	1666.7	1666.7	1662.6	1668.7	*1670.8*
10°	1654.4	1654.4	1650.3	1656.3	*1658.5*
12.5°	1637.9	1637.9	1635.7	1639.8	*1642.0*
15°	1619.2	1621.2	1615.1	1621.2	*1621.2*
17.5°	1596.5	1594.5	1592.4	1596.5	*1598.6*
20°	1569.6	1569.6	1563.5	1567.6	*1569.6*
22.5°	1538.6	1538.6	1536.6	1538.6	*1536.6*
25°	1505.6	1503.5	1499.3	1501.5	*1503.5*
27.5°	1466.4	1466.4	1462.3	1462.3	*1460.1*
30°	1427.1	1425.0	1418.9	1414.8	*1416.7*
32.5°	1379.7	1377.5	1371.4	1367.3	*1369.2*
35°	1330.0	1328.0	1319.8	1313.5	*1311.6*
37.5°	1280.6	1274.3	1263.9	1255.6	*1247.4*
40°	1218.6	1212.3	1202.1	1183.4	*1181.3*
42.5°	1156.5	1150.5	1133.8	1111.2	*1104.9*
45°	1090.4	1084.3	1055.3	1020.2	*1011.9*
47.5°	1020.2	1010.0	964.4	921.1	*904.6*
50°	941.9	923.2	869.5	813.7	*795.1*
52.5°	865.3	832.4	762.1	712.5	*694.1*
55°	774.5	735.3	658.9	621.6	*611.2*
57.5°	694.1	640.3	578.3	541.2	*533.0*
60°	601.0	551.4	501.9	468.8	*456.4*
62.5°	516.3	472.9	431.7	402.6	*388.3*
65°	435.8	400.7	367.7	338.7	*328.5*
67.5°	357.3	338.7	311.8	289.2	*283.0*
70°	291.2	280.8	262.4	251.9	*243.7*
72.5°	231.4	235.5	223.1	219.0	*212.7*
75°	185.8	188.0	189.9	183.9	*179.7*
77.5°	140.5	150.7	158.9	154.8	*150.7*
80°	105.4	115.6	130.1	124.0	*124.0*
82.5°	72.2	84.8	97.1	93.0	*90.8*
85°	41.4	53.8	66.1	62.0	*57.9*
87.5°	16.5	26.9	28.8	28.8	*26.9*
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	13.7	15.3	14.1	15.6	15.9	12.4	14.0	12.8	14.3	14.6
	3H	15.0	16.4	15.3	16.7	17.0	13.7	15.1	14.1	15.4	15.8
	4H	15.4	16.7	15.8	17.0	17.4	14.2	15.6	14.6	15.9	16.3
	6H	15.7	16.9	16.1	17.2	17.6	14.7	16.0	15.2	16.3	16.7
	8H	15.7	16.9	16.2	17.3	17.7	14.9	16.1	15.4	16.5	16.9
	12H	15.8	16.9	16.2	17.3	17.7	15.1	16.2	15.5	16.6	17.0
4H	2H	14.0	15.4	14.4	15.7	16.1	13.0	14.3	13.4	14.6	15.0
	3H	15.5	16.6	15.9	17.0	17.4	14.5	15.5	14.9	15.9	16.3
	4H	16.0	17.0	16.5	17.4	17.9	15.1	16.1	15.6	16.5	17.0
	6H	16.5	17.3	16.9	17.8	18.2	15.8	16.6	16.2	17.1	17.5
	8H	16.6	17.4	17.1	17.8	18.3	16.0	16.8	16.5	17.3	17.8
	12H	16.7	17.4	17.2	17.9	18.4	16.2	17.0	16.7	17.4	17.9
8H	4H	16.3	17.0	16.7	17.5	18.0	15.4	16.2	15.9	16.7	17.2
	6H	16.8	17.5	17.3	18.0	18.4	16.2	16.9	16.7	17.4	17.9
	8H	17.0	17.6	17.5	18.1	18.6	16.6	17.2	17.1	17.7	18.2
	12H	17.2	17.7	17.7	18.2	18.8	16.9	17.4	17.4	17.9	18.5
12H	4H	16.3	17.0	16.8	17.5	17.9	15.5	16.2	16.0	16.7	17.1
	6H	16.9	17.5	17.4	17.9	18.5	16.3	16.9	16.8	17.4	17.9
	8H	17.1	17.7	17.6	18.1	18.7	16.7	17.3	17.2	17.7	18.3

(END OF REPORT)