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: P1471821

Luminaire Tested: 24PTR-45S-PW1-L835-UNV-STD-B

Issue Date: 6/22/2026

Test Information

Test Method:	LM-79-2019
Report Number:	P1471821
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P737743)
Test Lab:	INNOVATION CENTER
Issue Date:	6/22/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	CORELITE
Catalog Number:	24PTR-45S-PW1-L835-UNV-STD-B
Description:	4500 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3500K, 80 CRI LEDS AND PW1 Lens Black Reces Frame
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	3686.2 lumens
Efficiency:	N/A
Efficacy:	103.5 lumens/watt
Spacing Criteria (0/90/45):	1.26 / 1.24 / 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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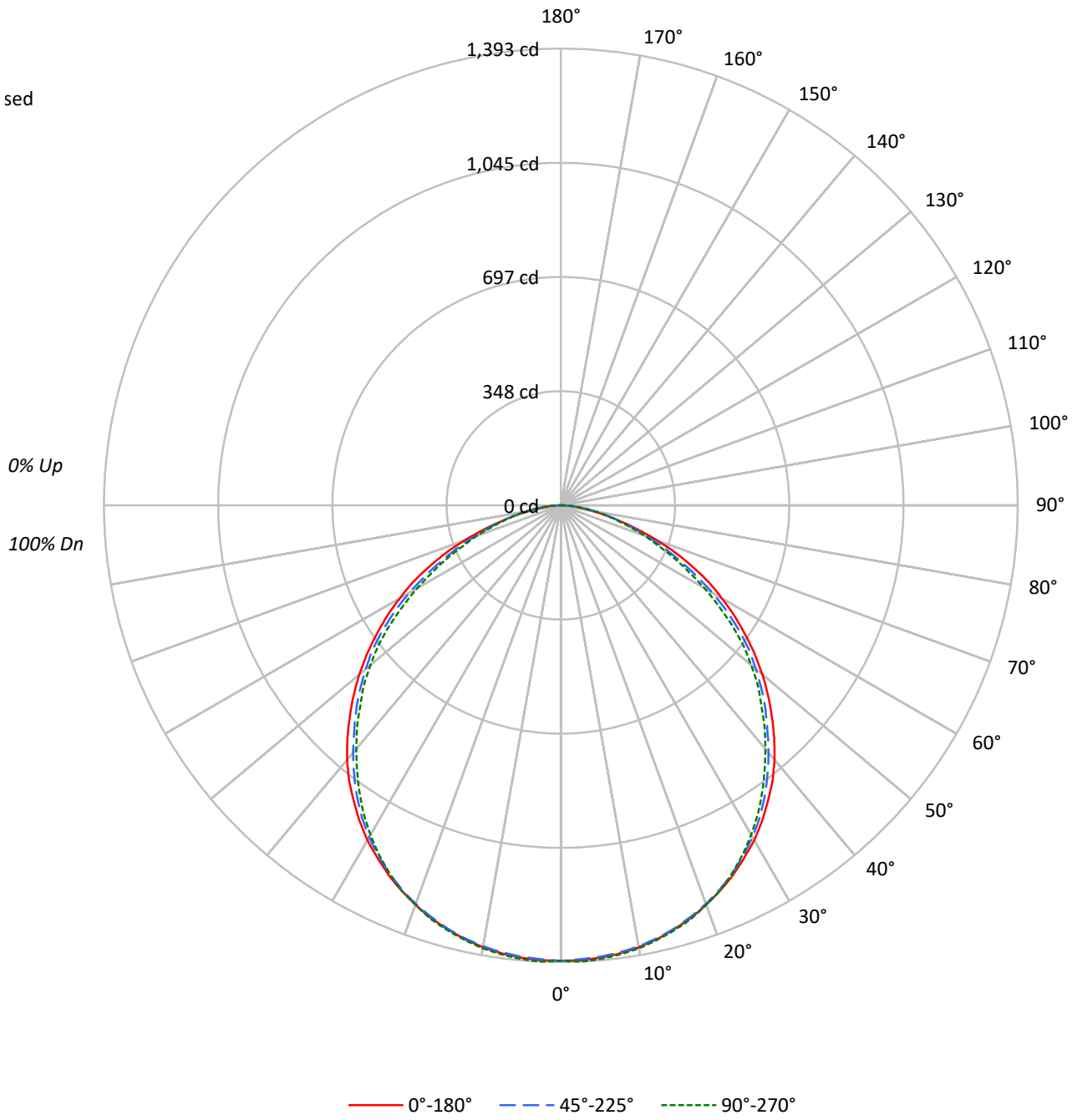
CATALOG NUMBER: 24PTR-45S-PW1-L835-UNV-STD-B

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	109	105	101	97	107	103	99	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1869	1869	1869
5°	1870	1866	1876
10°	1870	1866	1875
15°	1864	1861	1868
20°	1856	1852	1856
25°	1846	1838	1837
30°	1832	1816	1803
35°	1808	1780	1758
40°	1780	1731	1704
45°	1731	1679	1645
50°	1678	1623	1586
55°	1608	1554	1492
60°	1525	1435	1360
65°	1411	1281	1218
70°	1223	1115	1074
75°	976	955	928
80°	742	829	829
85°	548	707	707

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 1731 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.7	3.6
10°-20°	377.8	10.2
20°-30°	571.0	15.5
30°-40°	678.0	18.4
40°-50°	683.1	18.5
50°-60°	590.5	16.0
60°-70°	403.6	10.9
70°-80°	199.0	5.4
80°-90°	51.5	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°	1080.6	29.3
0°-40°	1758.6	47.7
0°-60°	3032.2	82.3
0°-90°	3686.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3686.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1389	1389	1389	1389	1389	
5°	1385	1386	1382	1388	1389	132
15°	1338	1340	1336	1341	1341	378
25°	1244	1242	1238	1239	1237	573
35°	1100	1097	1084	1074	1070	689
45°	910	900	883	872	865	702
55°	686	684	662	643	636	613
65°	443	427	402	385	382	437
75°	188	186	184	184	179	205
85°	36	42	46	47	46	44
90°	0	0	0	0	0	

TEST NUMBER: P1471821
CATALOG NUMBER: 24PTR-45S-PW1-L835-UNV-STD-B

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1389.0	1389.0	1389.0	1389.0	*1389.0*
2.5°	*1388.7*	*1389.0*	*1385.5*	*1391.7*	*1393.1*
5°	1384.9	1385.5	1381.9	1387.5	*1389.0*
7.5°	1378.4	1379.3	1375.2	1380.8	*1381.9*
10°	1368.5	1369.0	1365.5	1371.1	*1372.2*
12.5°	1355.2	1355.6	1352.6	1357.6	*1357.6*
15°	1338.2	1339.7	1336.1	1340.8	*1341.2*
17.5°	1319.1	1319.6	1316.1	1321.1	*1322.3*
20°	1296.5	1296.5	1293.5	1297.6	*1296.5*
22.5°	1271.2	1271.2	1267.7	1269.7	*1270.6*
25°	1243.5	1242.4	1238.3	1239.4	*1237.4*
27.5°	1211.5	1211.5	1204.3	1204.3	*1200.7*
30°	1179.2	1176.6	1168.9	1164.2	*1160.7*
32.5°	1142.0	1138.4	1128.7	1120.5	*1117.8*
35°	1100.5	1096.7	1083.8	1074.1	*1070.0*
37.5°	1060.2	1052.0	1035.0	1025.3	*1020.6*
40°	1013.3	1003.0	985.6	972.2	*970.1*
42.5°	963.0	954.8	932.1	922.2	*919.8*
45°	909.5	899.6	882.6	872.3	*864.6*
47.5°	856.9	849.7	830.2	817.9	*815.2*
50°	801.8	795.6	775.6	762.3	*757.6*
52.5°	744.7	740.6	723.6	706.6	*701.0*
55°	685.6	683.6	662.4	642.8	*636.1*
57.5°	627.5	624.8	598.5	575.8	*569.7*
60°	566.7	559.0	533.2	512.1	*505.3*
62.5°	509.1	492.6	464.8	448.3	*440.6*
65°	443.1	427.2	402.5	384.9	*382.5*
67.5°	378.4	359.3	340.2	329.4	*321.1*
70°	310.8	297.9	283.5	274.4	*272.9*
72.5°	248.0	238.8	231.5	225.9	*221.3*
75°	187.8	186.3	183.7	183.7	*178.6*
77.5°	138.0	141.6	143.6	143.1	*144.2*
80°	95.8	102.9	107.0	107.5	*107.0*
82.5°	60.8	69.0	75.7	76.7	*77.8*
85°	35.5	41.7	45.8	46.8	*45.8*
87.5°	15.9	20.0	21.1	22.1	*21.1*
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	13.9	15.5	14.2	15.8	16.1	13.3	14.9	13.6	15.2	15.5
	3H	15.3	16.8	15.7	17.1	17.5	14.7	16.1	15.0	16.4	16.8
	4H	15.8	17.1	16.2	17.5	17.8	15.1	16.5	15.5	16.8	17.2
	6H	16.0	17.3	16.4	17.6	18.0	15.5	16.7	15.9	17.1	17.5
	8H	16.1	17.3	16.5	17.7	18.1	15.6	16.8	16.0	17.2	17.6
	12H	16.1	17.3	16.5	17.6	18.1	15.7	16.8	16.1	17.2	17.6
4H	2H	14.3	15.7	14.7	16.0	16.4	13.8	15.2	14.2	15.5	15.9
	3H	16.0	17.1	16.4	17.5	17.9	15.4	16.5	15.8	16.9	17.3
	4H	16.5	17.5	16.9	17.9	18.4	16.0	17.0	16.4	17.4	17.9
	6H	16.9	17.8	17.3	18.2	18.7	16.5	17.4	16.9	17.8	18.3
	8H	17.0	17.8	17.4	18.2	18.7	16.6	17.5	17.1	17.9	18.4
	12H	17.0	17.8	17.5	18.2	18.7	16.8	17.5	17.2	18.0	18.4
8H	4H	16.7	17.5	17.2	18.0	18.4	16.2	17.1	16.7	17.5	18.0
	6H	17.2	17.8	17.7	18.3	18.8	16.8	17.5	17.3	18.0	18.5
	8H	17.3	17.9	17.8	18.4	18.9	17.0	17.7	17.6	18.2	18.6
	12H	17.4	18.0	17.9	18.4	19.0	17.2	17.8	17.7	18.3	18.8
12H	4H	16.7	17.5	17.2	17.9	18.4	16.3	17.0	16.7	17.5	17.9
	6H	17.2	17.8	17.7	18.3	18.8	16.9	17.5	17.4	17.9	18.5
	8H	17.4	17.9	17.9	18.4	19.0	17.1	17.7	17.6	18.2	18.7

(END OF REPORT)