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: P1471817

Luminaire Tested: 24PTR-45S-PP3-L835-UNV-STD-B

Issue Date: 6/22/2026

Test Information

Test Method:	LM-79-2019
Report Number:	P1471817
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P737727)
Test Lab:	INNOVATION CENTER
Issue Date:	6/22/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	CORELITE
Catalog Number:	24PTR-45S-PP3-L835-UNV-STD-B
Description:	4500 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3500K, 80 CRI LEDS AND PP3 Lens Black Recess Frame
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	3664.6 lumens
Efficiency:	N/A
Efficacy:	102.9 lumens/watt
Spacing Criteria (0/90/45):	1.24 / 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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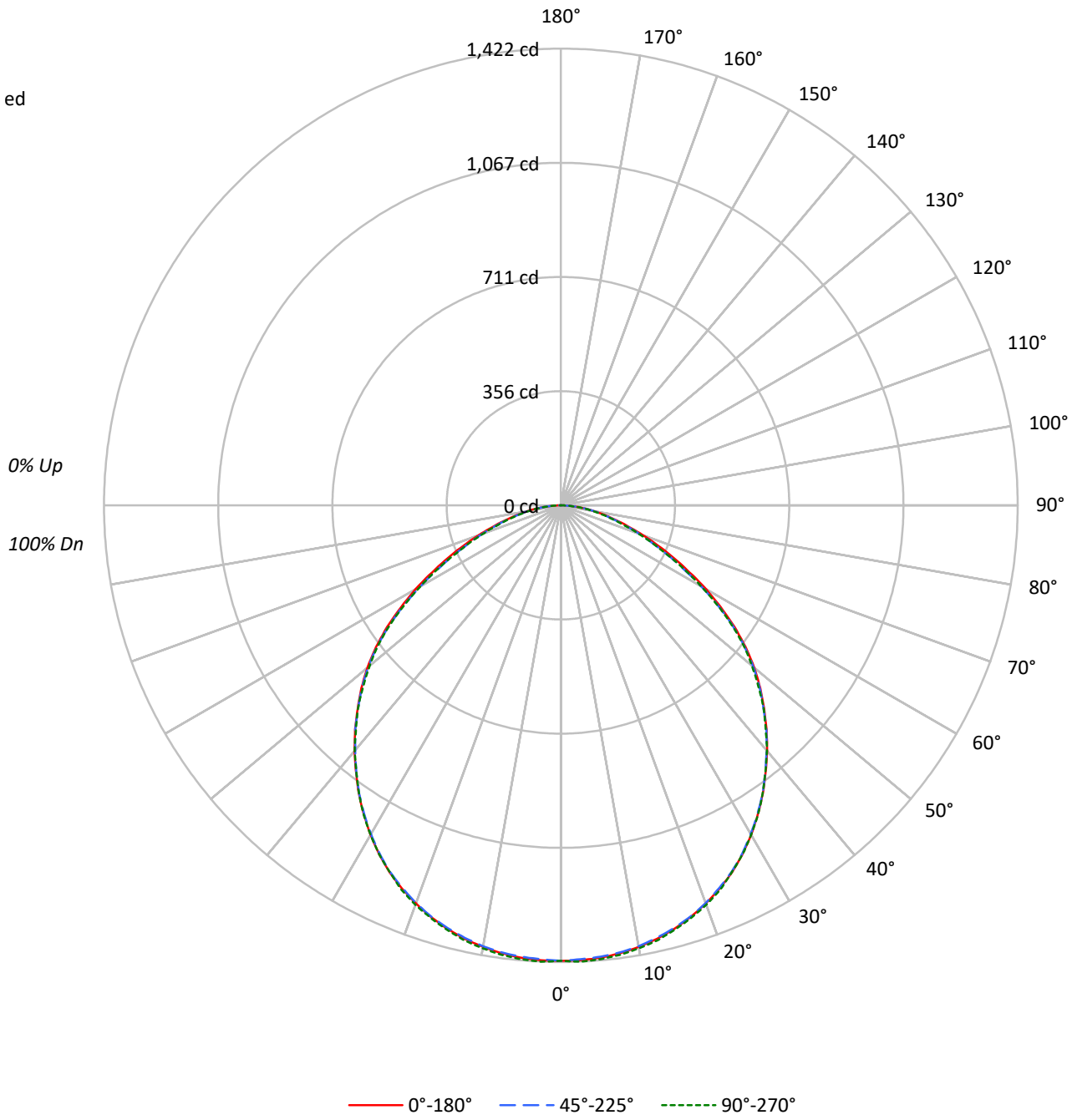
Luminous Intensity Polar Plot



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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	96	99	96	93	95	92	90	91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	78	84	79	76	81	77	74	72
3	92	81	74	67	89	80	73	67	77	71	66	74	69	65	72	67	63	61
4	84	73	64	58	82	71	63	57	69	62	56	66	60	56	64	59	55	53
5	77	65	56	50	75	64	56	50	62	55	49	60	54	49	58	52	48	46
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	42	40
7	66	53	45	39	65	52	44	39	51	44	38	50	43	38	48	42	38	36
8	62	49	40	35	60	48	40	35	47	39	34	45	39	34	44	38	34	32
9	58	45	37	31	57	44	36	31	43	36	31	42	35	31	41	35	31	29
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1908	1908	1908
5°	1910	1906	1916
10°	1907	1905	1914
15°	1901	1897	1906
20°	1889	1887	1895
25°	1872	1869	1871
30°	1840	1836	1840
35°	1800	1798	1799
40°	1754	1749	1753
45°	1701	1696	1699
50°	1645	1637	1625
55°	1548	1530	1525
60°	1405	1358	1360
65°	1234	1172	1170
70°	1067	1018	1007
75°	923	889	869
80°	817	806	769
85°	676	699	659

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
Vertical Angle: 45°
Luminance: 1707 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.5	3.7
10°-20°	385.3	10.5
20°-30°	580.1	15.8
30°-40°	684.7	18.7
40°-50°	688.6	18.8
50°-60°	581.4	15.9
60°-70°	373.3	10.2
70°-80°	185.7	5.1
80°-90°	50.9	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°	1100.0	30.0
0°-40°	1784.7	48.7
0°-60°	3054.6	83.4
0°-90°	3664.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3664.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1418	1418	1418	1418	1418	
5°	1414	1415	1411	1418	1419	134
15°	1365	1365	1362	1368	1368	385
25°	1261	1261	1259	1261	1260	580
35°	1096	1097	1094	1095	1095	685
45°	894	897	892	893	893	690
55°	660	659	652	650	650	587
65°	388	382	368	364	368	386
75°	178	177	171	169	167	192
85°	44	45	45	43	43	52
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1418.3	1418.3	1418.3	1418.3	*1418.3*
2.5°	*1417.7*	*1418.3*	*1414.6*	*1421.3*	*1422.4*
5°	1414.2	1414.6	1411.0	1417.7	*1418.7*
7.5°	1406.9	1407.5	1404.3	1410.4	*1411.6*
10°	1396.0	1397.7	1394.0	1399.8	*1400.7*
12.5°	1382.8	1383.3	1379.6	1386.3	*1387.4*
15°	1364.8	1365.2	1362.2	1368.4	*1368.4*
17.5°	1344.0	1344.6	1342.5	1347.8	*1347.2*
20°	1319.0	1320.5	1317.8	1321.4	*1323.5*
22.5°	1291.7	1292.2	1289.0	1293.7	*1295.8*
25°	1260.8	1261.2	1258.7	1261.2	*1260.2*
27.5°	1224.7	1225.6	1222.1	1224.7	*1225.3*
30°	1184.5	1187.1	1182.0	1184.1	*1184.5*
32.5°	1141.3	1142.8	1139.2	1139.8	*1142.4*
35°	1096.0	1096.6	1094.5	1095.4	*1095.4*
37.5°	1047.2	1049.2	1046.0	1047.5	*1045.5*
40°	998.7	996.7	995.5	996.7	*998.2*
42.5°	947.7	948.2	946.7	945.6	*943.2*
45°	894.2	897.3	891.5	892.7	*892.7*
47.5°	841.8	842.2	839.2	836.0	*833.9*
50°	785.7	785.7	781.9	779.5	*776.3*
52.5°	724.3	723.4	719.3	716.6	*718.1*
55°	660.0	659.4	652.3	649.7	*650.2*
57.5°	589.4	590.6	579.7	577.1	*577.1*
60°	522.1	516.9	504.5	501.0	*505.4*
62.5°	451.4	445.2	431.9	431.9	*435.5*
65°	387.6	382.0	368.1	364.4	*367.6*
67.5°	327.9	322.7	310.0	307.9	*308.8*
70°	271.2	266.7	258.9	254.2	*255.9*
72.5°	222.4	218.3	213.1	209.5	*207.5*
75°	177.5	176.6	171.0	169.3	*167.2*
77.5°	140.5	140.1	135.4	133.4	*131.3*
80°	105.5	104.9	104.0	100.8	*99.3*
82.5°	75.2	75.2	74.6	72.0	*70.5*
85°	43.8	45.3	45.3	42.7	*42.7*
87.5°	17.6	18.5	17.6	17.6	*17.0*
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	13.5	15.1	13.9	15.4	15.7	13.3	14.9	13.7	15.2	15.5
	3H	14.8	16.2	15.2	16.5	16.9	14.6	16.0	14.9	16.3	16.7
	4H	15.2	16.6	15.6	16.9	17.3	15.0	16.3	15.4	16.7	17.1
	6H	15.6	16.8	16.0	17.2	17.6	15.3	16.5	15.7	16.9	17.3
	8H	15.7	16.9	16.1	17.2	17.6	15.4	16.6	15.8	17.0	17.4
	12H	15.7	16.9	16.2	17.3	17.7	15.5	16.6	15.9	17.0	17.4
4H	2H	13.9	15.2	14.3	15.6	16.0	13.8	15.1	14.2	15.5	15.8
	3H	15.4	16.5	15.8	16.9	17.3	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	16.2	17.2	17.6
	6H	16.4	17.3	16.9	17.8	18.2	16.2	17.1	16.7	17.5	18.0
	8H	16.6	17.4	17.1	17.9	18.3	16.3	17.2	16.8	17.6	18.1
	12H	16.7	17.4	17.2	17.9	18.4	16.4	17.2	16.9	17.7	18.1
8H	4H	16.2	17.0	16.6	17.4	17.9	16.0	16.8	16.4	17.2	17.7
	6H	16.7	17.4	17.2	17.9	18.4	16.5	17.2	17.0	17.7	18.2
	8H	17.0	17.6	17.5	18.1	18.6	16.7	17.3	17.2	17.8	18.3
	12H	17.1	17.7	17.6	18.2	18.7	16.9	17.4	17.4	17.9	18.5
12H	4H	16.2	16.9	16.7	17.4	17.9	16.0	16.7	16.5	17.2	17.7
	6H	16.8	17.4	17.3	17.9	18.4	16.6	17.2	17.1	17.6	18.2
	8H	17.0	17.6	17.6	18.1	18.6	16.8	17.4	17.3	17.8	18.4

(END OF REPORT)