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: P1471818

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

Issue Date: 6/22/2026

Test Information

Test Method:	LM-79-2019
Report Number:	P1471818
	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-W
Description:	4500 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3500K, 80 CRI LEDS AND PP3 Lens White Reces
	Frame
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	4245.5 lumens
Efficiency:	N/A
Efficacy:	119.3 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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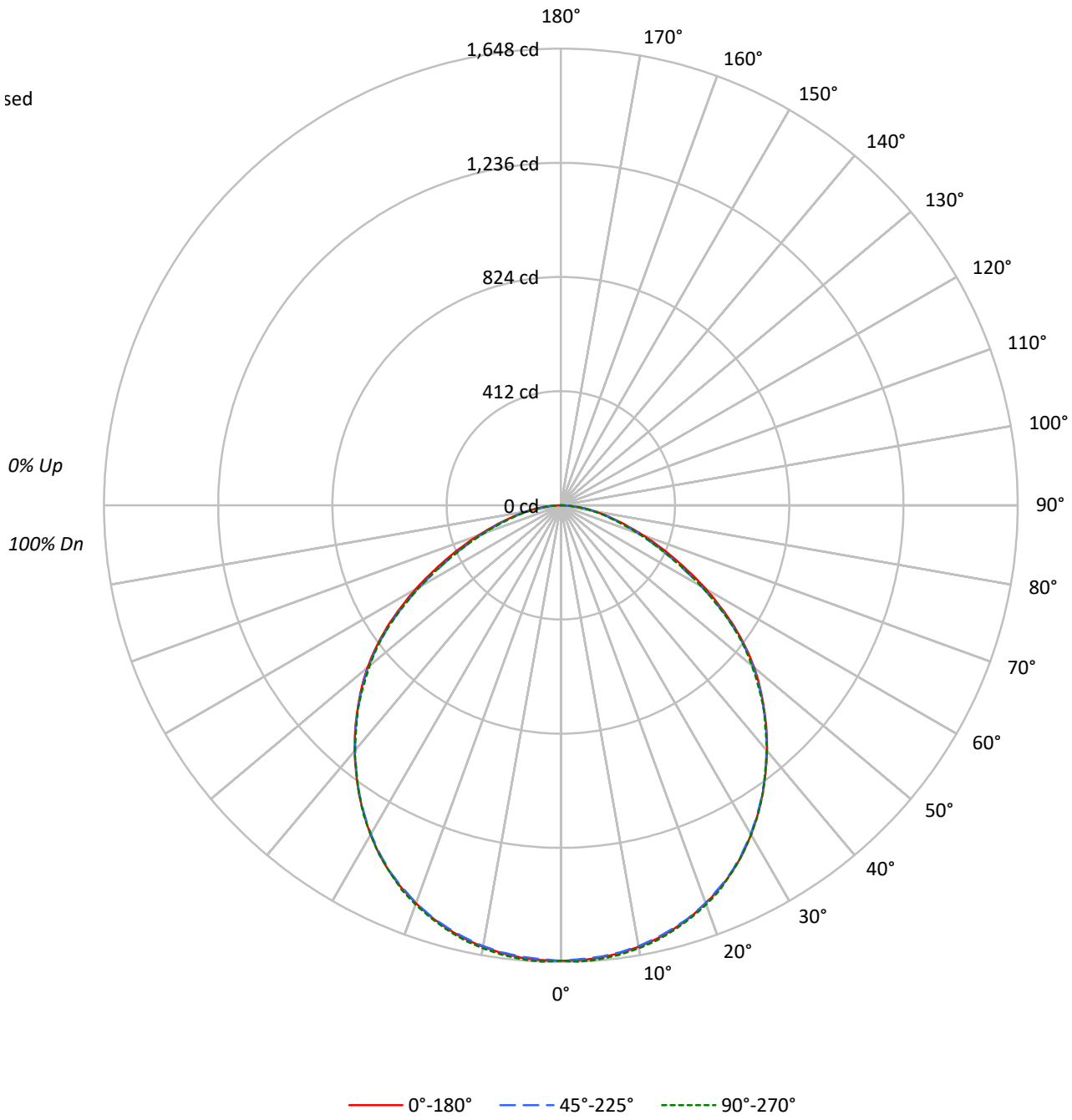
Luminous Intensity Polar Plot



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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°	2211	2211	2211
5°	2213	2208	2220
10°	2210	2206	2217
15°	2203	2198	2208
20°	2188	2186	2195
25°	2169	2165	2167
30°	2132	2128	2132
35°	2086	2083	2085
40°	2032	2026	2031
45°	1971	1965	1968
50°	1905	1896	1883
55°	1794	1773	1767
60°	1628	1573	1576
65°	1429	1358	1356
70°	1236	1180	1166
75°	1069	1030	1007
80°	947	934	892
85°	783	809	763

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
Vertical Angle: 45°
Luminance: 1978 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.8	3.7
10°-20°	446.4	10.5
20°-30°	672.1	15.8
30°-40°	793.2	18.7
40°-50°	797.8	18.8
50°-60°	673.5	15.9
60°-70°	432.5	10.2
70°-80°	215.1	5.1
80°-90°	58.9	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°	1274.3	30.0
0°-40°	2067.6	48.7
0°-60°	3538.9	83.4
0°-90°	4245.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4245.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1643	1643	1643	1643	1643	
5°	1638	1639	1635	1642	1644	156
15°	1581	1582	1578	1585	1585	446
25°	1461	1461	1458	1461	1460	672
35°	1270	1270	1268	1269	1269	794
45°	1036	1040	1033	1034	1034	799
55°	765	764	756	753	753	680
65°	449	442	426	422	426	448
75°	206	205	198	196	194	223
85°	51	52	52	49	49	60
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1643.2	1643.2	1643.2	1643.2	*1643.2*
2.5°	*1642.5*	*1643.2*	*1638.8*	*1646.6*	*1647.9*
5°	1638.4	1638.8	1634.7	1642.5	*1643.6*
7.5°	1629.9	1630.6	1626.9	1634.1	*1635.4*
10°	1617.4	1619.3	1615.0	1621.7	*1622.8*
12.5°	1602.0	1602.6	1598.3	1606.1	*1607.4*
15°	1581.2	1581.6	1578.1	1585.3	*1585.3*
17.5°	1557.1	1557.8	1555.4	1561.5	*1560.8*
20°	1528.1	1529.8	1526.8	1530.9	*1533.3*
22.5°	1496.4	1497.1	1493.4	1498.8	*1501.2*
25°	1460.7	1461.1	1458.3	1461.1	*1460.0*
27.5°	1418.9	1419.9	1415.8	1418.9	*1419.5*
30°	1372.3	1375.3	1369.4	1371.8	*1372.3*
32.5°	1322.2	1323.9	1319.8	1320.5	*1323.5*
35°	1269.7	1270.4	1268.0	1269.1	*1269.1*
37.5°	1213.2	1215.6	1211.9	1213.6	*1211.2*
40°	1157.1	1154.7	1153.4	1154.7	*1156.4*
42.5°	1097.9	1098.5	1096.8	1095.5	*1092.7*
45°	1035.9	1039.6	1032.9	1034.2	*1034.2*
47.5°	975.2	975.7	972.2	968.5	*966.1*
50°	910.2	910.2	905.9	903.1	*899.4*
52.5°	839.1	838.0	833.3	830.2	*832.0*
55°	764.6	763.9	755.7	752.7	*753.3*
57.5°	682.9	684.2	671.6	668.6	*668.6*
60°	604.9	598.8	584.5	580.4	*585.6*
62.5°	522.9	515.8	500.4	500.4	*504.5*
65°	449.0	442.5	426.5	422.2	*425.9*
67.5°	379.9	373.8	359.1	356.7	*357.8*
70°	314.2	309.0	299.9	294.5	*296.5*
72.5°	257.7	252.9	246.8	242.7	*240.3*
75°	205.7	204.6	198.1	196.1	*193.7*
77.5°	162.8	162.3	156.9	154.5	*152.1*
80°	122.2	121.6	120.5	116.8	*115.1*
82.5°	87.1	87.1	86.5	83.4	*81.7*
85°	50.7	52.4	52.4	49.4	*49.4*
87.5°	20.4	21.5	20.4	20.4	*19.7*
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	14.0	15.6	14.4	15.9	16.2	13.8	15.4	14.2	15.7	16.1
	3H	15.3	16.7	15.7	17.1	17.4	15.1	16.5	15.5	16.8	17.2
	4H	15.8	17.1	16.2	17.4	17.8	15.5	16.8	15.9	17.2	17.6
	6H	16.1	17.3	16.5	17.7	18.1	15.8	17.1	16.2	17.4	17.8
	8H	16.2	17.4	16.6	17.8	18.2	15.9	17.1	16.3	17.5	17.9
	12H	16.3	17.4	16.7	17.8	18.2	16.0	17.1	16.4	17.5	17.9
4H	2H	14.4	15.8	14.8	16.1	16.5	14.3	15.6	14.7	16.0	16.4
	3H	15.9	17.0	16.3	17.4	17.8	15.7	16.8	16.1	17.2	17.6
	4H	16.5	17.5	16.9	17.9	18.4	16.3	17.3	16.7	17.7	18.1
	6H	17.0	17.8	17.4	18.3	18.7	16.7	17.6	17.2	18.0	18.5
	8H	17.1	17.9	17.6	18.4	18.8	16.9	17.7	17.3	18.1	18.6
	12H	17.2	17.9	17.7	18.4	18.9	17.0	17.7	17.4	18.2	18.6
8H	4H	16.7	17.5	17.2	18.0	18.4	16.5	17.3	17.0	17.7	18.2
	6H	17.3	17.9	17.7	18.4	18.9	17.0	17.7	17.5	18.2	18.7
	8H	17.5	18.1	18.0	18.6	19.1	17.2	17.8	17.7	18.4	18.8
	12H	17.6	18.2	18.2	18.7	19.2	17.4	17.9	17.9	18.4	19.0
12H	4H	16.7	17.4	17.2	17.9	18.4	16.5	17.2	17.0	17.7	18.2
	6H	17.3	17.9	17.8	18.4	18.9	17.1	17.7	17.6	18.1	18.7
	8H	17.6	18.1	18.1	18.6	19.1	17.3	17.9	17.8	18.4	18.9

(END OF REPORT)