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: P1471822

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

Issue Date: 6/22/2026

Test Information

Test Method:	LM-79-2019
Report Number:	P1471822
	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-W
Description:	4500 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3500K, 80 CRI LEDS AND PW1 Lens White Rece Frame
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	4270.6 lumens
Efficiency:	N/A
Efficacy:	120.0 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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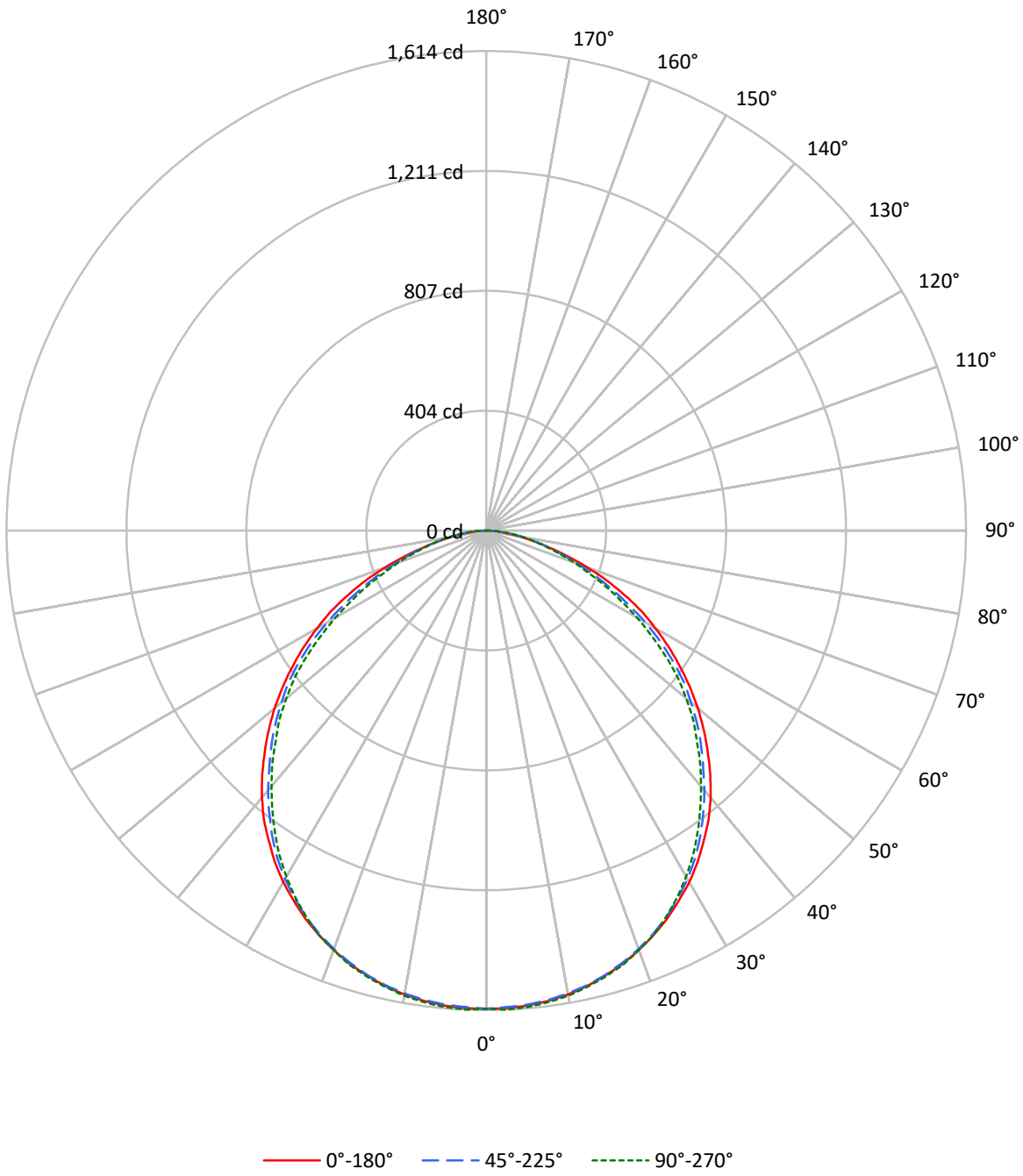
Luminous Intensity Polar Plot

ssed

0% Up

100% Dn



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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°	2165	2165	2165
5°	2167	2162	2173
10°	2166	2161	2172
15°	2159	2156	2164
20°	2151	2146	2151
25°	2139	2130	2128
30°	2122	2104	2089
35°	2094	2062	2036
40°	2062	2006	1974
45°	2005	1946	1906
50°	1944	1881	1837
55°	1863	1800	1729
60°	1767	1662	1576
65°	1634	1485	1411
70°	1417	1292	1244
75°	1131	1106	1076
80°	859	960	960
85°	636	820	820

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 2005 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.6	3.6
10°-20°	437.7	10.2
20°-30°	661.6	15.5
30°-40°	785.5	18.4
40°-50°	791.4	18.5
50°-60°	684.1	16.0
60°-70°	467.5	10.9
70°-80°	230.5	5.4
80°-90°	59.6	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°	1251.9	29.3
0°-40°	2037.4	47.7
0°-60°	3512.9	82.3
0°-90°	4270.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4270.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1609	1609	1609	1609	1609	
5°	1604	1605	1601	1608	1609	153
15°	1550	1552	1548	1553	1554	438
25°	1441	1439	1435	1436	1434	664
35°	1275	1271	1256	1244	1240	798
45°	1054	1042	1022	1011	1002	813
55°	794	792	768	745	737	710
65°	513	495	466	446	443	507
75°	218	216	213	213	207	237
85°	41	48	53	54	53	50
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1609.2	1609.2	1609.2	1609.2	*1609.2*
2.5°	*1608.8*	*1609.2*	*1605.1*	*1612.3*	*1614.0*
5°	1604.5	1605.1	1601.0	1607.5	*1609.2*
7.5°	1596.9	1598.0	1593.2	1599.7	*1601.0*
10°	1585.4	1586.1	1581.9	1588.4	*1589.7*
12.5°	1570.0	1570.5	1567.0	1572.8	*1572.8*
15°	1550.3	1552.0	1547.9	1553.3	*1553.8*
17.5°	1528.2	1528.9	1524.7	1530.6	*1531.9*
20°	1502.0	1502.0	1498.5	1503.3	*1502.0*
22.5°	1472.7	1472.7	1468.6	1471.0	*1472.1*
25°	1440.7	1439.4	1434.6	1435.9	*1433.5*
27.5°	1403.6	1403.6	1395.2	1395.2	*1391.1*
30°	1366.1	1363.1	1354.2	1348.8	*1344.7*
32.5°	1323.0	1318.9	1307.6	1298.1	*1295.1*
35°	1274.9	1270.6	1255.6	1244.4	*1239.6*
37.5°	1228.3	1218.8	1199.1	1187.8	*1182.4*
40°	1173.9	1162.0	1141.9	1126.3	*1123.9*
42.5°	1115.7	1106.1	1079.9	1068.4	*1065.6*
45°	1053.7	1042.2	1022.5	1010.6	*1001.7*
47.5°	992.8	984.4	961.8	947.5	*944.5*
50°	928.9	921.7	898.6	883.2	*877.7*
52.5°	862.8	858.0	838.3	818.6	*812.1*
55°	794.3	791.9	767.5	744.7	*736.9*
57.5°	726.9	723.9	693.4	667.1	*660.0*
60°	656.5	647.6	617.7	593.3	*585.5*
62.5°	589.8	570.7	538.4	519.4	*510.5*
65°	513.3	494.9	466.3	445.9	*443.1*
67.5°	438.3	416.2	394.1	381.6	*372.0*
70°	360.1	345.2	328.5	317.9	*316.1*
72.5°	287.3	276.7	268.2	261.7	*256.3*
75°	217.5	215.8	212.8	212.8	*206.9*
77.5°	159.9	164.0	166.4	165.8	*167.1*
80°	110.9	119.2	123.9	124.6	*123.9*
82.5°	70.4	80.0	87.8	88.8	*90.1*
85°	41.2	48.3	53.1	54.2	*53.1*
87.5°	18.4	23.2	24.5	25.6	*24.5*
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	14.4	16.0	14.7	16.3	16.6	13.8	15.4	14.1	15.7	16.0
	3H	15.8	17.3	16.2	17.6	18.0	15.2	16.6	15.5	16.9	17.3
	4H	16.3	17.6	16.7	18.0	18.4	15.6	17.0	16.0	17.3	17.7
	6H	16.5	17.8	16.9	18.1	18.5	16.0	17.2	16.4	17.6	18.0
	8H	16.6	17.8	17.0	18.2	18.6	16.1	17.3	16.5	17.7	18.1
	12H	16.6	17.8	17.0	18.1	18.6	16.2	17.3	16.6	17.7	18.1
4H	2H	14.8	16.2	15.2	16.5	16.9	14.3	15.7	14.7	16.0	16.4
	3H	16.5	17.6	16.9	18.0	18.4	15.9	17.1	16.3	17.4	17.8
	4H	17.0	18.0	17.5	18.5	18.9	16.5	17.5	16.9	17.9	18.4
	6H	17.4	18.3	17.8	18.7	19.2	17.0	17.9	17.4	18.3	18.8
	8H	17.5	18.3	17.9	18.8	19.2	17.1	18.0	17.6	18.4	18.9
	12H	17.5	18.3	18.0	18.8	19.2	17.3	18.0	17.7	18.5	19.0
8H	4H	17.2	18.0	17.7	18.5	19.0	16.8	17.6	17.2	18.0	18.5
	6H	17.7	18.4	18.2	18.8	19.3	17.3	18.0	17.8	18.5	19.0
	8H	17.8	18.4	18.3	18.9	19.4	17.6	18.2	18.1	18.7	19.2
	12H	17.9	18.5	18.4	19.0	19.5	17.7	18.3	18.2	18.8	19.3
12H	4H	17.2	18.0	17.7	18.4	18.9	16.8	17.5	17.3	18.0	18.5
	6H	17.7	18.3	18.2	18.8	19.3	17.4	18.0	17.9	18.5	19.0
	8H	17.9	18.4	18.4	18.9	19.5	17.6	18.2	18.1	18.7	19.2

(END OF REPORT)