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: P1471740

Luminaire Tested: 22PTR-45S-PR1-L835-UNV-STD-W

Issue Date: 6/22/2026

Test Information

Test Method:	LM-79-2019
Report Number:	P1471740
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P737735)
Test Lab:	INNOVATION CENTER
Issue Date:	6/22/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	CORELITE
Catalog Number:	22PTR-45S-PR1-L835-UNV-STD-W
Description:	4500 LUMEN 2X2 PERCEIVE PT TROFFER WITH 3500K, 80 CRI LEDS AND PR1 Lens White Reces
	Frame
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	4008.2 lumens
Efficiency:	N/A
Efficacy:	111.0 lumens/watt
Spacing Criteria (0/90/45):	1.26 / 1.26 / 1.34
Luminous Opening:	Rectangular (W 2' x L: 2' x H: 0')
CIE Type:	Direct
Input Watts (W):	36.1
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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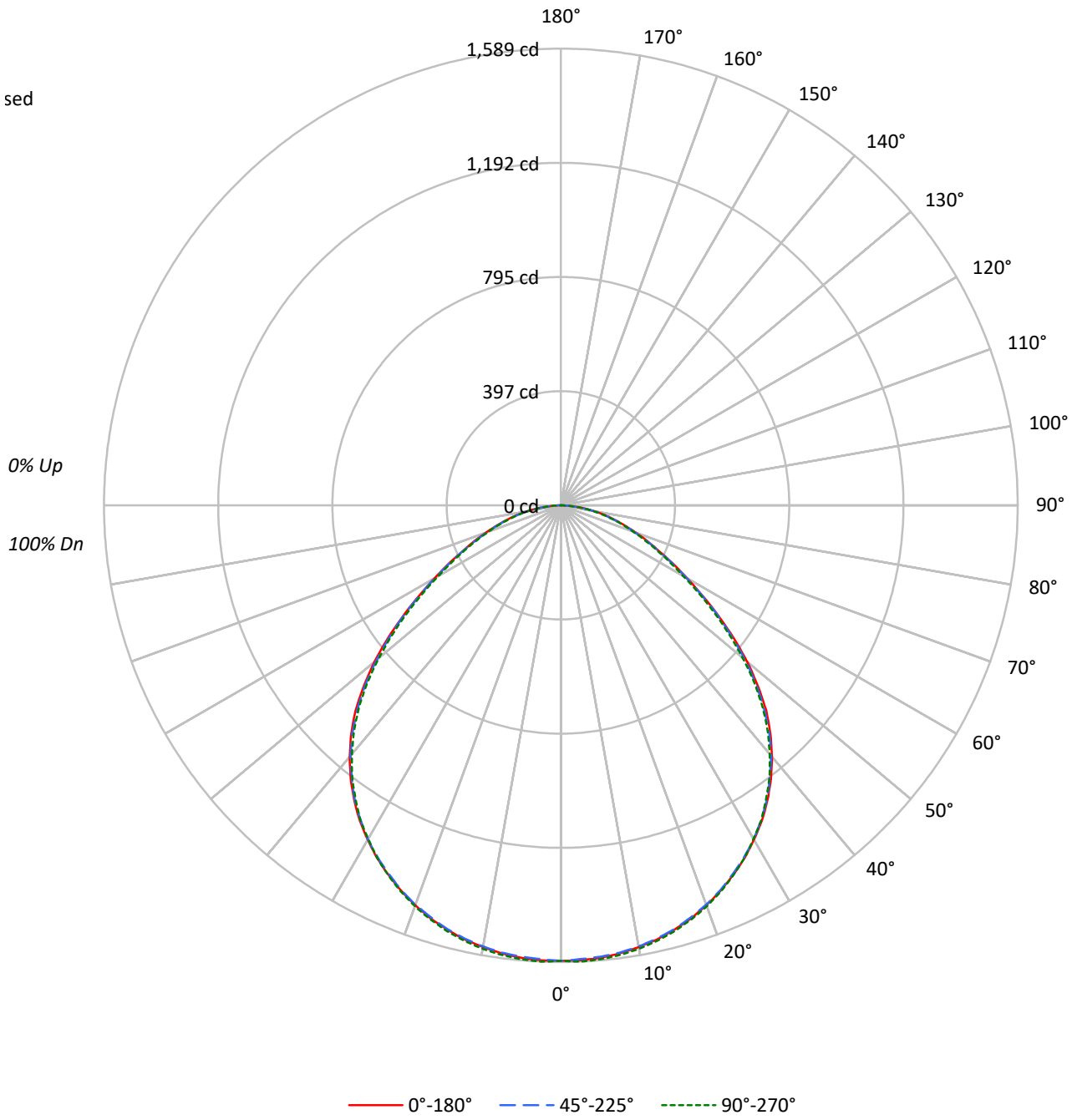
Luminous Intensity Polar Plot



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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	92	90	91	89	88	85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73
3	92	82	74	68	90	80	73	68	78	71	66	75	70	65	72	68	64	62
4	85	73	65	58	82	72	64	58	69	63	57	67	61	56	65	60	56	54
5	78	66	57	51	76	65	56	50	62	55	50	61	54	49	59	53	49	47
6	72	59	51	45	70	58	50	44	57	49	44	55	49	44	53	48	43	41
7	67	54	45	40	65	53	45	39	52	44	39	50	44	39	49	43	39	37
8	62	49	41	35	61	49	41	35	47	40	35	46	40	35	45	39	35	33
9	58	45	37	32	57	45	37	32	44	37	32	43	36	32	42	36	31	30
10	55	42	34	29	54	41	34	29	40	34	29	39	33	29	39	33	29	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4265	4265	4265
5°	4269	4259	4283
10°	4265	4258	4281
15°	4257	4251	4271
20°	4240	4234	4251
25°	4212	4201	4217
30°	4174	4169	4164
35°	4117	4107	4091
40°	4013	3997	3969
45°	3846	3802	3775
50°	3538	3499	3455
55°	3132	3118	3057
60°	2722	2711	2638
65°	2399	2384	2337
70°	2176	2145	2102
75°	2015	1968	1932
80°	1839	1813	1753
85°	1454	1439	1383

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 3846 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.3	3.8
10°-20°	431.5	10.8
20°-30°	653.7	16.3
30°-40°	780.4	19.5
40°-50°	767.5	19.1
50°-60°	593.2	14.8
60°-70°	374.0	9.3
70°-80°	202.3	5.0
80°-90°	55.3	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°	1235.6	30.8
0°-40°	2015.9	50.3
0°-60°	3376.6	84.2
0°-90°	4008.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4008.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1585	1585	1585	1585	1585	
5°	1580	1581	1577	1584	1586	150
15°	1528	1528	1526	1531	1533	431
25°	1418	1420	1415	1420	1420	654
35°	1253	1254	1250	1249	1245	782
45°	1010	1007	999	991	992	774
55°	668	673	665	654	652	599
65°	377	377	374	368	367	379
75°	194	192	189	190	186	206
85°	47	48	47	47	45	56
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1584.9	1584.9	1584.9	1584.9	*1584.9*
2.5°	*1584.3*	*1584.9*	*1580.3*	*1587.8*	*1589.4*
5°	1580.3	1581.0	1576.8	1583.6	*1585.5*
7.5°	1572.3	1573.5	1569.6	1576.4	*1578.1*
10°	1560.9	1562.2	1558.3	1565.1	*1566.7*
12.5°	1546.9	1547.3	1544.0	1550.2	*1551.9*
15°	1528.1	1528.5	1525.9	1530.8	*1533.1*
17.5°	1506.5	1507.1	1503.2	1509.3	*1510.4*
20°	1480.5	1480.9	1478.6	1483.8	*1484.4*
22.5°	1451.4	1452.6	1449.1	1453.6	*1454.2*
25°	1418.5	1419.6	1415.0	1419.6	*1420.2*
27.5°	1383.9	1384.3	1380.4	1383.9	*1383.2*
30°	1343.4	1346.9	1341.8	1340.5	*1340.1*
32.5°	1301.5	1301.9	1297.0	1295.7	*1298.0*
35°	1253.2	1253.6	1250.3	1248.7	*1245.2*
37.5°	1200.4	1200.4	1194.0	1192.9	*1192.3*
40°	1142.4	1141.8	1137.8	1133.9	*1129.8*
42.5°	1079.2	1080.5	1072.4	1065.6	*1064.6*
45°	1010.5	1006.6	999.1	991.3	*991.9*
47.5°	929.4	930.4	920.3	913.9	*912.3*
50°	845.2	845.2	835.7	828.9	*825.4*
52.5°	757.3	757.9	748.8	739.7	*737.9*
55°	667.5	673.0	664.6	653.9	*651.6*
57.5°	583.5	588.0	580.0	568.6	*568.0*
60°	505.7	506.1	503.8	493.1	*490.2*
62.5°	439.2	436.3	435.1	429.5	*426.0*
65°	376.7	377.3	374.4	368.0	*367.0*
67.5°	326.1	325.5	320.3	316.4	*314.1*
70°	276.6	274.9	272.6	269.3	*267.1*
72.5°	232.4	232.4	230.5	229.5	*225.6*
75°	193.8	191.5	189.3	190.3	*185.8*
77.5°	156.9	154.6	152.7	150.5	*149.4*
80°	118.7	116.4	117.0	113.5	*113.1*
82.5°	82.4	82.4	81.3	78.4	*79.0*
85°	47.1	47.7	46.6	47.1	*44.8*
87.5°	17.1	17.5	18.8	17.5	*17.5*
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	15.6	17.1	15.9	17.4	17.8	15.3	16.9	15.7	17.2	17.5
	3H	16.9	18.3	17.3	18.6	19.0	16.7	18.1	17.1	18.4	18.8
	4H	17.4	18.8	17.8	19.1	19.5	17.2	18.5	17.6	18.9	19.3
	6H	17.8	19.1	18.3	19.4	19.8	17.6	18.8	18.0	19.2	19.6
	8H	18.0	19.1	18.4	19.5	19.9	17.7	18.9	18.2	19.3	19.7
	12H	18.1	19.2	18.5	19.5	20.0	17.8	18.9	18.2	19.3	19.7
4H	2H	16.0	17.3	16.4	17.7	18.1	15.8	17.1	16.2	17.5	17.9
	3H	17.6	18.7	18.0	19.1	19.5	17.4	18.5	17.8	18.9	19.3
	4H	18.2	19.2	18.7	19.6	20.1	18.1	19.1	18.5	19.5	19.9
	6H	18.8	19.6	19.2	20.1	20.5	18.6	19.5	19.1	19.9	20.4
	8H	19.0	19.8	19.4	20.2	20.7	18.8	19.6	19.2	20.0	20.5
	12H	19.1	19.8	19.6	20.3	20.7	18.9	19.6	19.4	20.1	20.5
8H	4H	18.5	19.3	18.9	19.7	20.2	18.3	19.1	18.8	19.6	20.0
	6H	19.1	19.8	19.6	20.3	20.8	19.0	19.6	19.5	20.1	20.6
	8H	19.4	20.0	19.9	20.5	21.0	19.2	19.8	19.7	20.3	20.8
	12H	19.6	20.1	20.1	20.6	21.2	19.4	19.9	19.9	20.4	21.0
12H	4H	18.5	19.2	19.0	19.7	20.2	18.3	19.1	18.8	19.5	20.0
	6H	19.2	19.8	19.7	20.2	20.8	19.0	19.6	19.5	20.1	20.6
	8H	19.5	20.0	20.0	20.5	21.1	19.3	19.8	19.8	20.3	20.9

(END OF REPORT)