

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: P1471819

Luminaire Tested: 24PTR-45S-PR1-L835-UNV-STD-B

Issue Date: 6/22/2026

Test Information

Test Method: LM-79-2019
Report Number: P1471819
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: 24PTR-45S-PR1-L835-UNV-STD-B
Description: 4500 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3500K, 80 CRI LEDS AND PR1 Lens Black Recess Frame
Light Source: -
Ballast/Driver: -

Summary

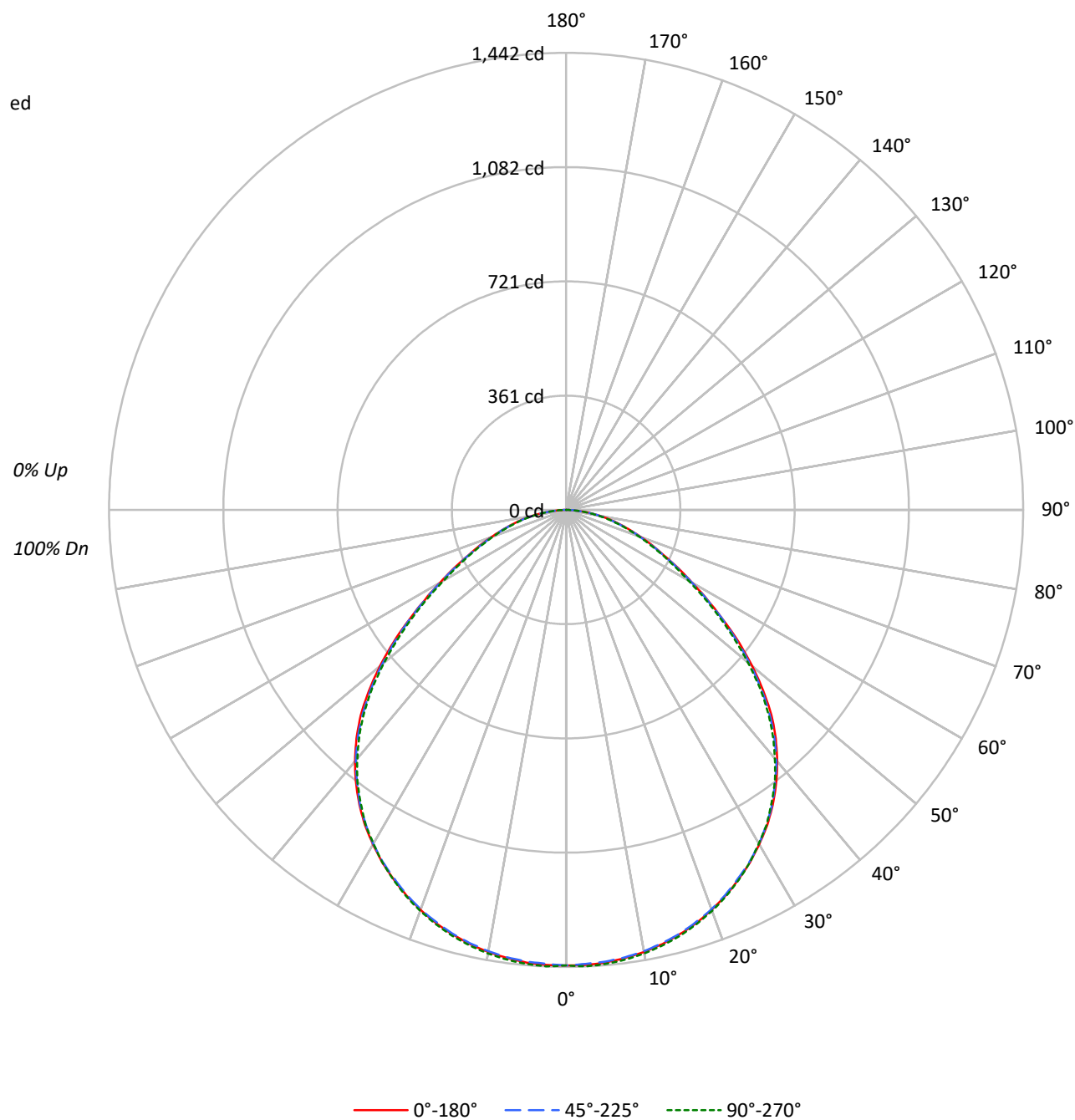
Lumens per Lamp: N/A
Luminaire Lumens: 3635.6 lumens
Efficiency: N/A
Efficacy: 102.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1471819

CATALOG NUMBER: 24PTR-45S-PR1-L835-UNV-STD-B

Luminous Intensity Polar Plot



TEST NUMBER: P1471819

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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					0
RW	70	50	30	10	70	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
1	110	105	101	98	107	103	99	96		99	96	93			95	92	90			91
2	100	93	86	81	98	91	85	80		87	82	78			84	80	76			81
3	92	82	74	68	90	80	73	68		78	71	66			75	70	65			72
4	85	73	65	58	82	72	64	58		69	63	57			67	61	56			65
5	78	66	57	51	76	65	56	50		62	55	50			61	54	49			59
6	72	59	51	45	70	58	50	44		57	49	44			55	49	44			53
7	67	54	45	40	65	53	45	39		52	44	39			50	44	39			49
8	62	49	41	35	61	49	41	35		47	40	35			46	40	35			45
9	58	45	37	32	57	45	37	32		44	37	32			43	36	32			42
10	55	42	34	29	54	41	34	29		40	34	29			39	33	29			39

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1934	1934	1934
5°	1936	1932	1942
10°	1934	1931	1942
15°	1931	1928	1937
20°	1923	1920	1928
25°	1910	1905	1912
30°	1893	1891	1889
35°	1867	1863	1855
40°	1820	1813	1800
45°	1744	1725	1712
50°	1605	1587	1567
55°	1420	1414	1386
60°	1234	1230	1196
65°	1088	1081	1060
70°	987	973	953
75°	914	893	876
80°	834	822	795
85°	659	653	627

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1744 cd/sqm

TEST NUMBER: P1471819

CATALOG NUMBER: 24PTR-45S-PR1-L835-UNV-STD-B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.4	3.8
10°-20°	391.4	10.8
20°-30°	593.0	16.3
30°-40°	707.8	19.5
40°-50°	696.1	19.1
50°-60°	538.0	14.8
60°-70°	339.3	9.3
70°-80°	183.5	5.0
80°-90°	50.1	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°	1120.7	30.8
0°-40°	1828.6	50.3
0°-60°	3062.7	84.2
0°-90°	3635.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3635.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1438	1438	1438	1438	1438	
5°	1434	1434	1430	1436	1438	136
15°	1386	1386	1384	1388	1391	391
25°	1287	1288	1284	1288	1288	593
35°	1137	1137	1134	1133	1129	710
45°	917	913	906	899	900	702
55°	605	610	603	593	591	543
65°	342	342	340	334	333	344
75°	176	174	172	173	168	187
85°	43	43	42	43	41	51
90°	0	0	0	0	0	

TEST NUMBER: P1471819

CATALOG NUMBER: 24PTR-45S-PR1-L835-UNV-STD-B

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1437.6	1437.6	1437.6	1437.6	1437.6
2.5°	1437.0	1437.6	1433.5	1440.2	1441.7
5°	1433.5	1434.0	1430.3	1436.5	1438.1
7.5°	1426.2	1427.3	1423.7	1429.9	1431.4
10°	1415.9	1417.0	1413.4	1419.6	1421.1
12.5°	1403.1	1403.5	1400.5	1406.1	1407.6
15°	1386.1	1386.5	1384.0	1388.5	1390.6
17.5°	1366.4	1367.0	1363.4	1369.1	1370.0
20°	1342.9	1343.2	1341.2	1345.9	1346.4
22.5°	1316.5	1317.6	1314.4	1318.5	1319.1
25°	1286.7	1287.6	1283.5	1287.6	1288.2
27.5°	1255.2	1255.6	1252.1	1255.2	1254.7
30°	1218.5	1221.7	1217.0	1215.9	1215.6
32.5°	1180.5	1180.9	1176.4	1175.3	1177.4
35°	1136.7	1137.1	1134.1	1132.6	1129.4
37.5°	1088.8	1088.8	1083.0	1082.1	1081.5
40°	1036.2	1035.6	1032.1	1028.5	1024.8
42.5°	978.9	980.0	972.7	966.6	965.6
45°	916.6	913.0	906.3	899.2	899.7
47.5°	843.0	843.9	834.8	829.0	827.5
50°	766.6	766.6	758.0	751.8	748.7
52.5°	686.9	687.4	679.2	671.0	669.3
55°	605.4	610.5	602.8	593.1	591.0
57.5°	529.2	533.4	526.1	515.8	515.2
60°	458.7	459.0	457.0	447.2	444.6
62.5°	398.4	395.8	394.6	389.6	386.4
65°	341.7	342.2	339.6	333.8	332.9
67.5°	295.8	295.2	290.5	287.0	284.9
70°	250.9	249.4	247.3	244.3	242.2
72.5°	210.8	210.8	209.1	208.2	204.6
75°	175.8	173.7	171.7	172.6	168.5
77.5°	142.3	140.2	138.5	136.5	135.5
80°	107.6	105.6	106.1	103.0	102.6
82.5°	74.7	74.7	73.8	71.1	71.7
85°	42.7	43.2	42.3	42.7	40.6
87.5°	15.5	15.9	17.0	15.9	15.9
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	12.8	14.4	13.2	14.7	15.0	12.6	14.2	13.0	14.5	14.8
	3H	14.2	15.6	14.5	15.9	16.3	13.9	15.3	14.3	15.7	16.0
	4H	14.7	16.0	15.1	16.4	16.7	14.5	15.8	14.9	16.1	16.5
	6H	15.1	16.3	15.5	16.7	17.1	14.9	16.1	15.3	16.5	16.8
	8H	15.2	16.4	15.7	16.8	17.2	15.0	16.2	15.4	16.5	16.9
	12H	15.3	16.4	15.7	16.8	17.2	15.1	16.2	15.5	16.6	17.0
4H	2H	13.3	14.6	13.7	14.9	15.3	13.1	14.4	13.5	14.7	15.1
	3H	14.8	15.9	15.2	16.3	16.7	14.7	15.8	15.1	16.2	16.6
	4H	15.5	16.5	15.9	16.9	17.3	15.3	16.3	15.8	16.7	17.2
	6H	16.0	16.9	16.5	17.3	17.8	15.8	16.7	16.3	17.1	17.6
	8H	16.2	17.0	16.7	17.5	17.9	16.0	16.8	16.5	17.3	17.7
	12H	16.3	17.0	16.8	17.5	18.0	16.1	16.9	16.6	17.3	17.8
8H	4H	15.7	16.5	16.2	17.0	17.4	15.6	16.4	16.0	16.8	17.3
	6H	16.4	17.1	16.9	17.5	18.0	16.2	16.9	16.7	17.4	17.9
	8H	16.6	17.2	17.1	17.7	18.2	16.5	17.1	17.0	17.6	18.1
	12H	16.8	17.3	17.3	17.8	18.4	16.6	17.2	17.1	17.7	18.2
12H	4H	15.8	16.5	16.2	16.9	17.4	15.6	16.3	16.1	16.8	17.3
	6H	16.4	17.0	17.0	17.5	18.0	16.3	16.9	16.8	17.3	17.9
	8H	16.7	17.3	17.2	17.7	18.3	16.6	17.1	17.1	17.6	18.1

(END OF REPORT)