

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: P1471813

Luminaire Tested: 24PTR-45S-PL1-L835-UNV-STD-B

Issue Date: 6/22/2026

Test Information

Test Method: LM-79-2019
Report Number: P1471813
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P737719)
Test Lab: INNOVATION CENTER
Issue Date: 6/22/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 24PTR-45S-PL1-L835-UNV-STD-B
Description: 4500 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3500K, 80 CRI LEDS AND PL1 Lens Black Recess
Frame
Light Source: -
Ballast/Driver: -

Summary

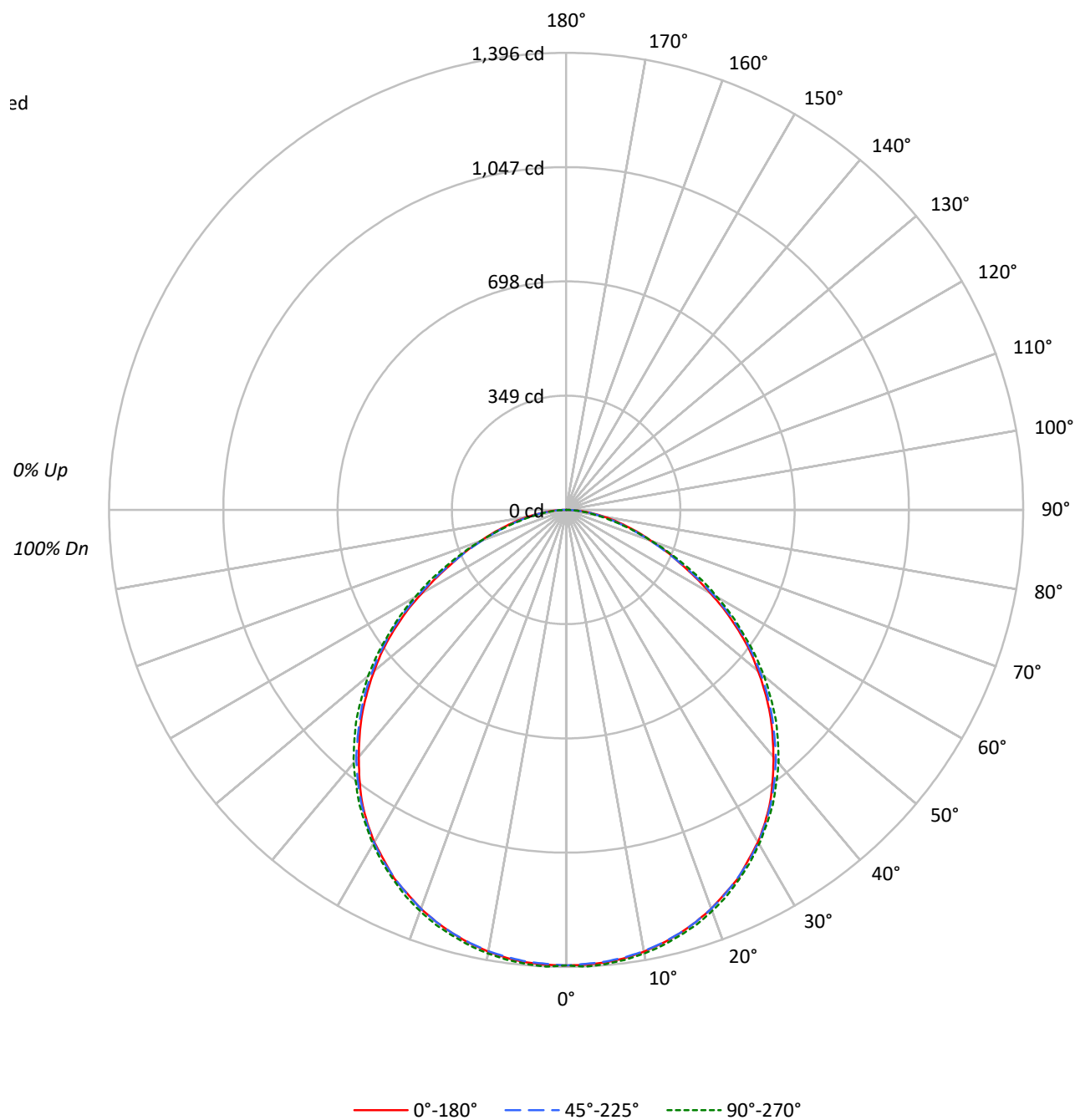
Lumens per Lamp: N/A
Luminaire Lumens: 3668.2 lumens
Efficiency: N/A
Efficacy: 103.0 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.26 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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: P1471813

CATALOG NUMBER: 24PTR-45S-PL1-L835-UNV-STD-B

Luminous Intensity Polar Plot



TEST NUMBER: P1471813

CATALOG NUMBER: 24PTR-45S-PL1-L835-UNV-STD-B

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	100
1	109	105	101	97	107	103	99	96	98	95	93	94	92	90	91	89	87	87	87	85
2	100	92	86	80	97	90	84	79	87	82	77	83	79	75	80	77	74	74	74	72
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	63	63	61
4	84	72	64	57	82	71	63	57	68	61	56	66	60	55	64	59	55	55	55	52
5	77	65	56	49	75	64	55	49	61	54	49	60	53	48	58	52	48	48	48	46
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	47	42	42	42	40
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	37	37	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	34	34	32
9	58	44	36	31	56	44	36	31	43	36	31	42	35	30	41	35	30	30	30	29
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	28	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1872	1872	1872
5°	1874	1870	1881
10°	1872	1870	1880
15°	1866	1865	1874
20°	1857	1857	1867
25°	1844	1841	1851
30°	1821	1823	1832
35°	1786	1793	1807
40°	1730	1751	1773
45°	1677	1690	1723
50°	1603	1620	1652
55°	1510	1534	1552
60°	1369	1399	1433
65°	1216	1229	1279
70°	1087	1065	1092
75°	981	924	906
80°	891	828	735
85°	755	685	590

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 1723 cd/sqm

TEST NUMBER: P1471813

CATALOG NUMBER: 24PTR-45S-PL1-L835-UNV-STD-B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.0	3.6
10°-20°	378.6	10.3
20°-30°	572.7	15.6
30°-40°	682.6	18.6
40°-50°	686.4	18.7
50°-60°	582.5	15.9
60°-70°	387.9	10.6
70°-80°	193.7	5.3
80°-90°	51.8	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°	1083.3	29.5
0°-40°	1765.9	48.1
0°-60°	3034.8	82.7
0°-90°	3668.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3668.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1392	1392	1392	1392	1392	
5°	1388	1388	1385	1391	1392	132
15°	1340	1341	1339	1345	1346	378
25°	1242	1242	1240	1246	1247	571
35°	1087	1088	1092	1099	1100	678
45°	881	883	888	900	905	678
55°	644	648	654	660	662	573
65°	382	385	386	392	402	383
75°	189	186	178	174	174	203
85°	49	48	44	42	38	57
90°	0	0	0	0	0	

TEST NUMBER: P1471813

CATALOG NUMBER: 24PTR-45S-PL1-L835-UNV-STD-B

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1391.6	1391.6	1391.6	1391.6	1391.6
2.5°	1390.5	1391.6	1387.8	1394.6	1396.3
5°	1387.5	1387.8	1384.8	1391.0	1392.5
7.5°	1380.7	1381.3	1378.1	1384.8	1385.8
10°	1369.9	1371.0	1368.4	1374.5	1376.0
12.5°	1356.0	1357.5	1354.9	1361.6	1362.7
15°	1339.5	1341.0	1338.9	1344.6	1345.7
17.5°	1319.3	1320.4	1319.3	1324.5	1327.5
20°	1296.6	1296.6	1296.6	1301.3	1303.9
22.5°	1268.3	1270.9	1269.8	1276.0	1278.6
25°	1242.1	1242.1	1240.4	1246.2	1247.1
27.5°	1205.4	1209.5	1209.1	1214.2	1215.3
30°	1171.8	1173.0	1173.5	1177.1	1179.1
32.5°	1131.2	1132.1	1133.8	1138.9	1139.4
35°	1087.3	1088.5	1091.5	1099.1	1100.3
37.5°	1036.4	1042.0	1044.6	1052.9	1053.8
40°	985.2	988.8	996.7	1005.3	1009.4
42.5°	933.2	937.3	942.0	953.8	957.5
45°	881.1	882.6	888.4	900.2	905.4
47.5°	823.4	828.1	833.1	843.4	846.6
50°	765.7	770.7	773.9	783.1	789.3
52.5°	707.4	712.1	715.7	721.3	727.5
55°	643.5	648.0	653.8	660.0	661.5
57.5°	578.5	583.6	587.3	593.9	600.6
60°	508.8	514.6	519.7	525.9	532.6
62.5°	444.0	446.4	451.7	462.0	471.7
65°	382.0	385.2	386.1	391.9	401.7
67.5°	330.5	330.5	325.8	327.9	338.7
70°	276.3	274.3	270.7	268.7	277.5
72.5°	232.5	229.9	222.2	218.6	223.3
75°	188.7	186.0	177.8	173.7	174.2
77.5°	151.6	147.4	140.7	133.6	132.1
80°	115.0	113.3	106.8	100.0	94.8
82.5°	81.5	77.9	74.2	70.1	65.9
85°	48.9	48.0	44.4	41.8	38.2
87.5°	20.0	20.0	19.1	18.0	17.0
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1471813

CATALOG NUMBER: 24PTR-45S-PL1-L835-UNV-STD-B

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	13.4	15.0	13.8	15.3	15.6	13.5	15.1	13.9	15.4	15.8
	3H	14.8	16.2	15.1	16.5	16.9	14.9	16.3	15.2	16.6	17.0
	4H	15.3	16.6	15.7	17.0	17.3	15.3	16.6	15.7	17.0	17.4
	6H	15.7	16.9	16.1	17.3	17.7	15.6	16.8	16.0	17.2	17.6
	8H	15.8	17.0	16.2	17.4	17.8	15.7	16.8	16.1	17.2	17.6
	12H	15.9	17.0	16.3	17.4	17.8	15.7	16.8	16.1	17.2	17.6
4H	2H	13.9	15.2	14.3	15.6	16.0	14.0	15.3	14.4	15.7	16.1
	3H	15.5	16.6	15.9	17.0	17.4	15.5	16.6	15.9	17.0	17.4
	4H	16.1	17.1	16.5	17.5	17.9	16.1	17.1	16.5	17.5	17.9
	6H	16.6	17.5	17.1	17.9	18.4	16.4	17.3	16.9	17.8	18.2
	8H	16.8	17.6	17.2	18.0	18.5	16.6	17.4	17.0	17.8	18.3
	12H	16.9	17.6	17.4	18.1	18.6	16.6	17.4	17.1	17.9	18.3
8H	4H	16.3	17.1	16.8	17.6	18.0	16.3	17.1	16.7	17.5	18.0
	6H	16.9	17.6	17.4	18.1	18.6	16.8	17.4	17.3	17.9	18.4
	8H	17.2	17.8	17.7	18.3	18.8	16.9	17.5	17.4	18.1	18.5
	12H	17.3	17.9	17.9	18.4	18.9	17.1	17.6	17.6	18.1	18.7
12H	4H	16.3	17.0	16.8	17.5	18.0	16.3	17.0	16.8	17.5	18.0
	6H	17.0	17.6	17.5	18.0	18.6	16.8	17.4	17.3	17.9	18.4
	8H	17.2	17.8	17.7	18.3	18.8	17.0	17.6	17.5	18.1	18.6

(END OF REPORT)