

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: P1471811

Luminaire Tested: 24PTR-45S-PC3-L835-UNV-STD-B

Issue Date: 6/22/2026

Test Information

Test Method: LM-79-2019
Report Number: P1471811
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P737711)
Test Lab: INNOVATION CENTER
Issue Date: 6/22/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 24PTR-45S-PC3-L835-UNV-STD-B
Description: 4500 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3500K, 80 CRI LEDS AND PC3 Lens Black Recess Frame
Light Source: -
Ballast/Driver: -

Summary

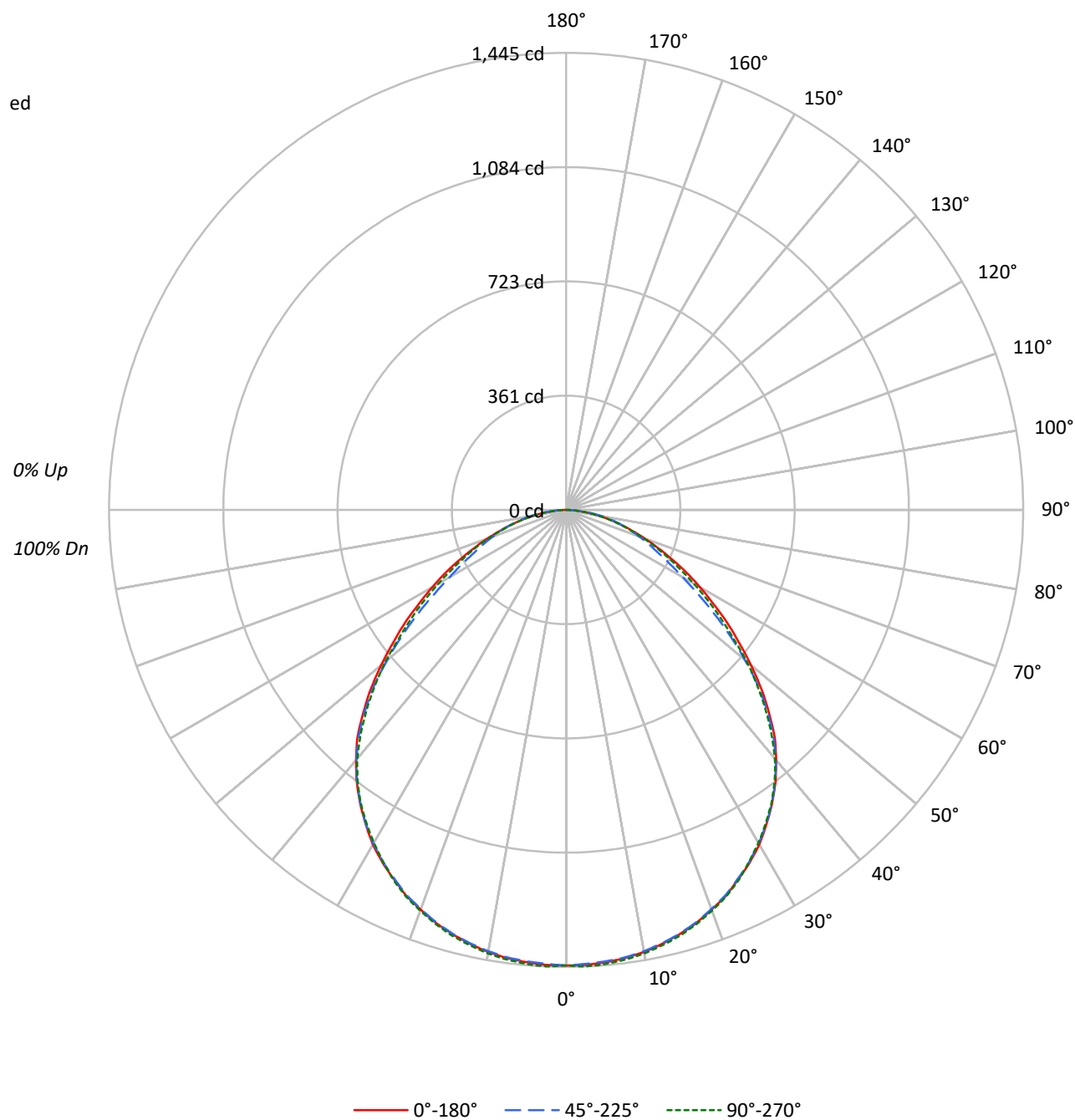
Lumens per Lamp: N/A
Luminaire Lumens: 3632.0 lumens
Efficiency: N/A
Efficacy: 102.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.25 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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
RC	80				70					50					30					0
RW	70	50	30	10	70	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
1	110	105	101	98	107	103	99	96		99	96	93		95	92	90		91	89	87
2	100	93	86	81	98	91	85	80		87	82	78		84	80	76		81	78	75
3	92	82	74	68	90	80	73	68		77	71	66		75	70	65		72	68	64
4	85	73	65	58	82	72	64	58		69	63	57		67	61	56		65	60	56
5	78	66	57	51	76	65	56	50		62	55	50		61	54	49		59	53	49
6	72	59	51	45	70	58	50	44		57	49	44		55	49	44		53	48	43
7	67	54	46	40	65	53	45	39		52	44	39		50	44	39		49	43	39
8	62	49	41	35	61	49	41	35		47	40	35		46	40	35		45	39	35
9	58	45	37	32	57	45	37	32		44	37	32		43	36	32		42	36	31
10	55	42	34	29	54	41	34	29		40	34	29		40	33	29		39	33	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1938	1938	1938
5°	1939	1935	1947
10°	1939	1935	1946
15°	1934	1932	1941
20°	1926	1923	1931
25°	1912	1909	1917
30°	1898	1892	1889
35°	1864	1862	1859
40°	1815	1812	1804
45°	1726	1713	1695
50°	1597	1544	1561
55°	1458	1339	1400
60°	1314	1143	1253
65°	1175	1022	1127
70°	1042	967	1013
75°	922	937	903
80°	795	895	790
85°	596	709	596

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 1729 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.6	3.8
10°-20°	392.2	10.8
20°-30°	593.8	16.3
30°-40°	708.0	19.5
40°-50°	691.7	19.0
50°-60°	528.9	14.6
60°-70°	339.6	9.3
70°-80°	188.9	5.2
80°-90°	52.2	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°	1122.6	30.9
0°-40°	1830.6	50.4
0°-60°	3051.3	84.0
0°-90°	3632.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3632.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1441	1441	1441	1441	1441	
5°	1436	1436	1433	1440	1441	137
15°	1389	1390	1387	1392	1393	392
25°	1288	1290	1286	1290	1291	594
35°	1135	1136	1134	1133	1132	709
45°	907	909	900	898	891	698
55°	621	600	571	578	597	555
65°	369	340	321	332	354	368
75°	177	179	180	178	174	189
85°	39	45	46	44	39	47
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1440.6	1440.6	1440.6	1440.6	1440.6
2.5°	1439.7	1440.3	1436.5	1442.7	1444.8
5°	1435.6	1436.5	1433.0	1439.7	1441.2
7.5°	1429.4	1430.3	1426.8	1433.5	1434.1
10°	1419.1	1419.7	1416.5	1423.2	1424.2
12.5°	1405.2	1406.7	1403.2	1409.4	1409.7
15°	1388.6	1389.7	1387.1	1391.8	1393.3
17.5°	1369.1	1369.7	1367.1	1372.1	1372.7
20°	1344.8	1344.8	1342.7	1348.5	1348.5
22.5°	1320.1	1318.6	1318.0	1320.1	1323.2
25°	1288.2	1289.7	1286.2	1290.3	1291.2
27.5°	1257.3	1257.3	1254.2	1256.2	1253.6
30°	1221.8	1219.7	1217.7	1218.0	1215.6
32.5°	1178.9	1178.9	1178.0	1178.0	1174.8
35°	1134.7	1135.7	1133.6	1133.0	1131.5
37.5°	1087.2	1088.9	1085.1	1084.2	1083.0
40°	1033.1	1033.1	1031.6	1029.5	1026.9
42.5°	976.9	976.9	970.3	965.1	961.5
45°	906.9	908.9	900.1	898.1	891.0
47.5°	837.2	835.7	823.9	822.4	818.3
50°	763.1	754.3	737.4	741.9	745.7
52.5°	689.0	678.1	653.4	658.4	664.6
55°	621.4	599.8	571.0	578.1	596.7
57.5°	550.8	522.0	493.1	506.6	529.6
60°	488.4	456.1	424.6	439.0	465.8
62.5°	428.7	394.3	369.0	382.9	405.5
65°	369.0	340.5	321.1	331.7	354.0
67.5°	314.3	295.2	281.9	287.0	305.0
70°	264.9	252.9	245.8	247.3	257.6
72.5°	217.9	214.9	212.3	212.3	213.2
75°	177.3	178.8	180.3	177.9	173.7
77.5°	139.7	144.7	148.5	143.2	138.2
80°	102.6	110.8	115.5	109.7	102.0
82.5°	70.0	79.4	80.9	77.3	68.5
85°	38.6	45.3	45.9	44.4	38.6
87.5°	14.4	17.0	18.5	17.0	15.0
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	14.3	13.1	14.6	15.0	12.5	14.1	12.9	14.4	14.7
	3H	14.2	15.6	14.6	15.9	16.3	14.0	15.4	14.4	15.7	16.1
	4H	14.7	16.1	15.1	16.4	16.8	14.5	15.9	14.9	16.2	16.6
	6H	15.1	16.4	15.5	16.7	17.1	15.0	16.2	15.4	16.5	16.9
	8H	15.3	16.4	15.7	16.8	17.2	15.1	16.2	15.5	16.6	17.0
	12H	15.3	16.4	15.7	16.8	17.2	15.1	16.3	15.6	16.6	17.1
4H	2H	13.2	14.5	13.5	14.8	15.2	13.0	14.3	13.4	14.6	15.0
	3H	14.8	15.9	15.3	16.3	16.7	14.7	15.8	15.1	16.2	16.6
	4H	15.5	16.5	16.0	16.9	17.4	15.4	16.4	15.8	16.8	17.2
	6H	16.1	16.9	16.5	17.4	17.8	15.9	16.8	16.4	17.2	17.7
	8H	16.2	17.0	16.7	17.5	17.9	16.1	16.9	16.6	17.3	17.8
	12H	16.3	17.1	16.8	17.5	18.0	16.2	16.9	16.7	17.4	17.9
8H	4H	15.8	16.6	16.3	17.0	17.5	15.7	16.5	16.1	16.9	17.4
	6H	16.5	17.1	17.0	17.6	18.1	16.3	17.0	16.8	17.5	18.0
	8H	16.7	17.3	17.2	17.8	18.3	16.6	17.2	17.1	17.7	18.2
	12H	16.9	17.4	17.4	17.9	18.5	16.8	17.3	17.3	17.8	18.3
12H	4H	15.8	16.5	16.3	17.0	17.5	15.7	16.4	16.2	16.9	17.3
	6H	16.5	17.1	17.0	17.6	18.1	16.4	17.0	16.9	17.5	18.0
	8H	16.8	17.3	17.3	17.8	18.4	16.7	17.2	17.2	17.7	18.3

(END OF REPORT)