

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: P1471793

Luminaire Tested: 24PTR-40S-PB1-L835-UNV-STD-B

Issue Date: 6/22/2026

Test Information

Test Method: LM-79-2019
Report Number: P1471793
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P737703)
Test Lab: INNOVATION CENTER
Issue Date: 6/22/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 24PTR-40S-PB1-L835-UNV-STD-B
Description: 4000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3500K, 80 CRI LEDS AND PB1 Lens Black Recess Frame
Light Source: -
Ballast/Driver: -

Summary

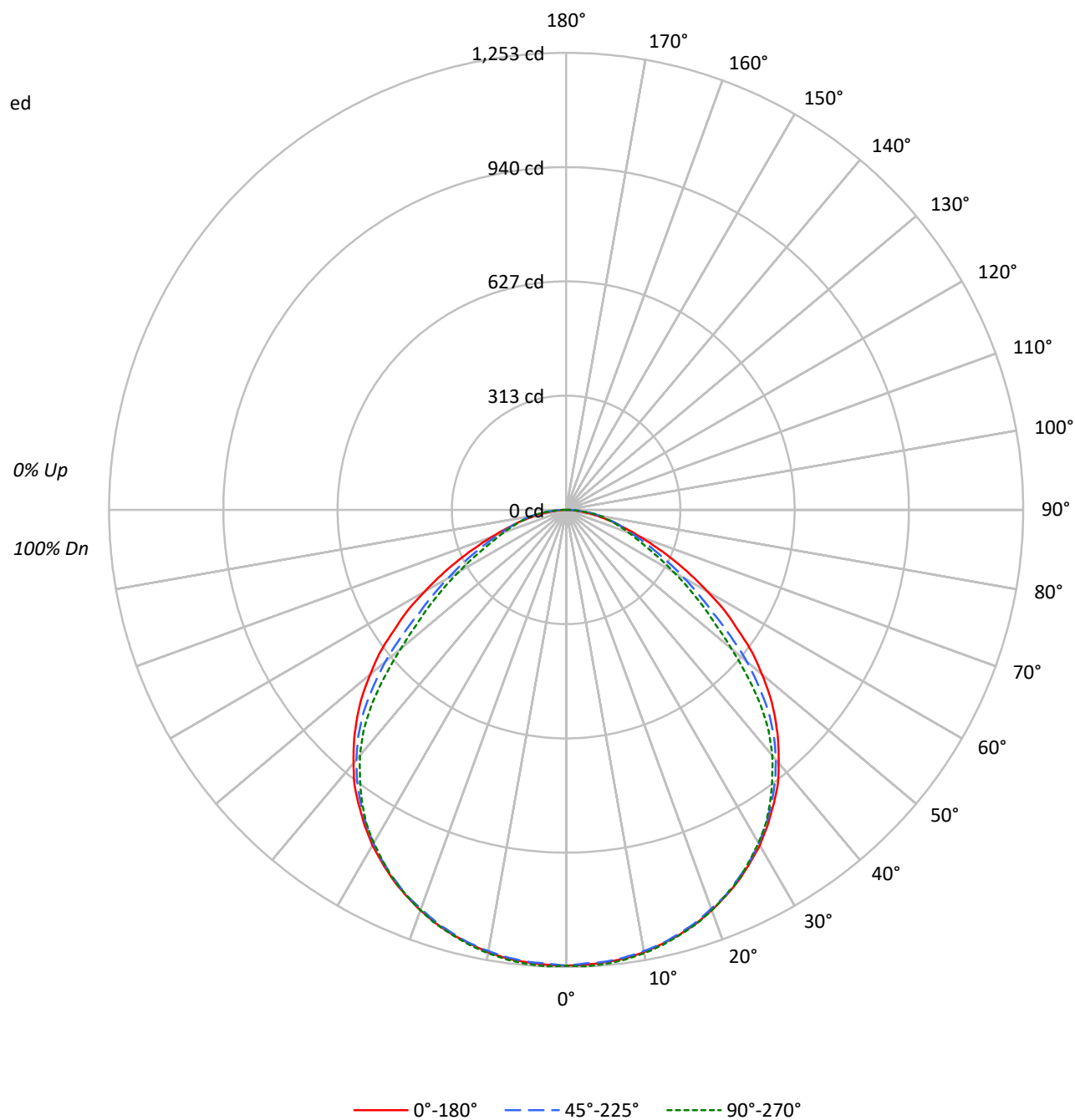
Lumens per Lamp: N/A
Luminaire Lumens: 3115.6 lumens
Efficiency: N/A
Efficacy: 102.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.25 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 30.3
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	50	30	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	100
1	110	105	101	98	107	103	99	96	99	96	93	95	93	90	91	89	88	88	88	86
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75	75	75	73
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	64	64	64	62
4	85	73	65	59	83	72	64	58	70	63	58	67	62	57	65	60	56	56	56	54
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	54	49	49	49	47
6	72	60	51	45	71	59	51	45	57	50	44	55	49	44	54	48	44	44	44	42
7	67	54	46	40	66	53	45	40	52	45	39	51	44	39	49	43	39	39	39	37
8	63	50	41	36	61	49	41	36	48	41	35	46	40	35	45	39	35	35	35	33
9	59	46	38	32	57	45	37	32	44	37	32	43	36	32	42	36	32	32	32	30
10	55	42	34	29	54	42	34	29	41	34	29	40	33	29	39	33	29	29	29	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1681	1681	1681
5°	1681	1679	1688
10°	1682	1678	1686
15°	1679	1674	1680
20°	1672	1666	1672
25°	1663	1656	1661
30°	1650	1640	1638
35°	1626	1613	1603
40°	1593	1571	1544
45°	1544	1494	1433
50°	1467	1354	1239
55°	1352	1150	1067
60°	1204	1005	914
65°	1032	871	778
70°	852	768	714
75°	719	735	696
80°	607	750	715
85°	475	760	665

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1544 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.5	3.8
10°-20°	339.9	10.9
20°-30°	514.9	16.5
30°-40°	613.6	19.7
40°-50°	600.0	19.3
50°-60°	453.8	14.6
60°-70°	278.8	8.9
70°-80°	148.5	4.8
80°-90°	47.4	1.5
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°	973.4	31.2
0°-40°	1587.0	50.9
0°-60°	2640.8	84.8
0°-90°	3115.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3115.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1250	1250	1250	1250	1250	
5°	1245	1246	1243	1248	1250	118
15°	1205	1206	1202	1206	1206	340
25°	1120	1119	1116	1117	1119	516
35°	990	988	982	978	976	619
45°	811	807	785	759	753	624
55°	576	547	490	463	455	516
65°	324	298	274	252	244	323
75°	138	140	141	137	134	148
85°	31	40	49	46	43	37
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1249.5	1249.5	1249.5	1249.5	1249.5
2.5°	1248.0	1249.5	1244.8	1251.1	1252.6
5°	1244.8	1246.4	1243.4	1248.0	1249.5
7.5°	1240.3	1240.3	1237.2	1241.7	1243.4
10°	1231.1	1231.1	1228.0	1232.5	1234.2
12.5°	1218.8	1218.8	1217.2	1220.3	1221.9
15°	1205.0	1206.4	1201.9	1206.4	1206.4
17.5°	1188.0	1186.6	1184.9	1188.0	1189.6
20°	1168.0	1168.0	1163.5	1166.6	1168.0
22.5°	1144.9	1144.9	1143.5	1144.9	1143.5
25°	1120.4	1118.8	1115.7	1117.3	1118.8
27.5°	1091.2	1091.2	1088.1	1088.1	1086.5
30°	1062.0	1060.4	1055.9	1052.8	1054.3
32.5°	1026.7	1025.1	1020.5	1017.5	1018.9
35°	989.7	988.3	982.1	977.5	976.0
37.5°	952.9	948.2	940.5	934.4	928.2
40°	906.8	902.1	894.5	880.6	879.0
42.5°	860.6	856.1	843.7	826.9	822.2
45°	811.4	806.9	785.3	759.1	753.0
47.5°	759.1	751.6	717.7	685.4	673.1
50°	700.9	687.0	647.0	605.5	591.7
52.5°	643.9	619.4	567.1	530.2	516.5
55°	576.3	547.1	490.3	462.6	454.8
57.5°	516.5	476.5	430.3	402.7	396.6
60°	447.3	410.3	373.5	348.8	339.6
62.5°	384.2	351.9	321.2	299.6	289.0
65°	324.3	298.2	273.6	252.0	244.4
67.5°	265.9	252.0	232.0	215.2	210.6
70°	216.7	208.9	195.2	187.5	181.4
72.5°	172.2	175.2	166.0	163.0	158.3
75°	138.3	139.9	141.3	136.8	133.8
77.5°	104.6	112.1	118.3	115.2	112.1
80°	78.4	86.0	96.8	92.3	92.3
82.5°	53.7	63.1	72.3	69.2	67.6
85°	30.8	40.0	49.2	46.1	43.1
87.5°	12.3	20.0	21.5	21.5	20.0
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	12.7	14.3	13.1	14.6	14.9	11.4	13.0	11.8	13.3	13.6
	3H	13.9	15.3	14.3	15.7	16.0	12.7	14.1	13.0	14.4	14.7
	4H	14.3	15.7	14.7	16.0	16.4	13.2	14.5	13.6	14.9	15.3
	6H	14.6	15.8	15.0	16.2	16.6	13.7	14.9	14.1	15.3	15.7
	8H	14.7	15.9	15.1	16.3	16.7	13.9	15.1	14.3	15.4	15.8
	12H	14.8	15.9	15.2	16.3	16.7	14.0	15.1	14.5	15.5	16.0
4H	2H	13.0	14.3	13.4	14.7	15.1	11.9	13.2	12.3	13.6	14.0
	3H	14.5	15.6	14.9	16.0	16.4	13.4	14.5	13.8	14.9	15.3
	4H	15.0	16.0	15.4	16.4	16.8	14.1	15.1	14.6	15.5	16.0
	6H	15.4	16.3	15.9	16.7	17.2	14.8	15.6	15.2	16.1	16.5
	8H	15.6	16.4	16.0	16.8	17.3	15.0	15.8	15.5	16.3	16.7
	12H	15.7	16.4	16.1	16.9	17.3	15.2	15.9	15.7	16.4	16.9
8H	4H	15.2	16.0	15.7	16.5	16.9	14.4	15.2	14.9	15.7	16.1
	6H	15.8	16.4	16.3	16.9	17.4	15.2	15.9	15.7	16.4	16.8
	8H	16.0	16.6	16.5	17.1	17.6	15.6	16.2	16.1	16.7	17.1
	12H	16.1	16.7	16.7	17.2	17.7	15.8	16.4	16.4	16.9	17.4
12H	4H	15.2	16.0	15.7	16.4	16.9	14.5	15.2	14.9	15.6	16.1
	6H	15.8	16.4	16.4	16.9	17.4	15.3	15.9	15.8	16.4	16.9
	8H	16.1	16.6	16.6	17.1	17.7	15.7	16.2	16.2	16.7	17.3

(END OF REPORT)