

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: P1471791

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

Issue Date: 6/22/2026

Test Information

Test Method: LM-79-2019
Report Number: P1471791
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2310-200-1)
Test Lab: INNOVATION CENTER
Issue Date: 6/22/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 24PTR-40S-L835-UNV-STD-B
Description: 4000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3500K, 80 CRI LEDS AND Frosted Lens Black Recessed Frame
Light Source: -
Ballast/Driver: -

Summary

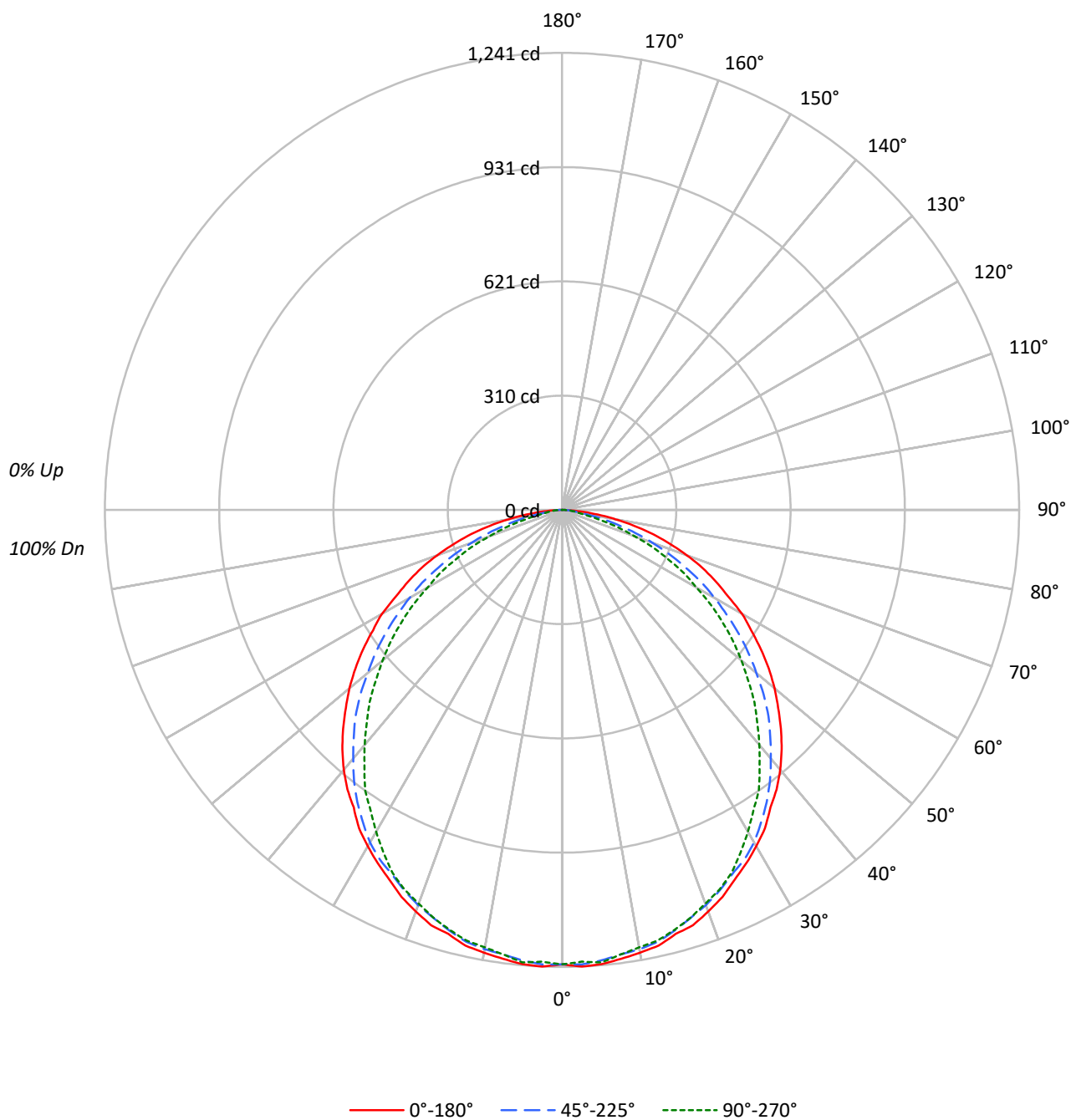
Lumens per Lamp: N/A
Luminaire Lumens: 3286.6 lumens
Efficiency: N/A
Efficacy: 108.5 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.21 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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					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	100		
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85		
2	100	92	85	80	97	90	84	79	87	81	77	83	79	75	80	77	74	72		
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61		
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52		
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45		
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40		
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35		
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31		
9	57	44	36	31	56	44	36	30	42	35	30	41	35	30	40	34	30	28		
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	37	32	27	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1660	1660	1660
5°	1672	1659	1665
10°	1668	1655	1648
15°	1660	1647	1644
20°	1662	1635	1629
25°	1645	1621	1616
30°	1638	1620	1568
35°	1620	1591	1529
40°	1619	1549	1464
45°	1598	1509	1405
50°	1577	1441	1329
55°	1546	1374	1248
60°	1519	1285	1133
65°	1467	1179	1013
70°	1419	1026	827
75°	1333	810	569
80°	1156	490	342
85°	772	352	329

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1598 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.0	3.6
10°-20°	334.7	10.2
20°-30°	505.5	15.4
30°-40°	601.1	18.3
40°-50°	609.6	18.5
50°-60°	529.4	16.1
60°-70°	375.8	11.4
70°-80°	179.6	5.5
80°-90°	34.0	1.0
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°	957.2	29.1
0°-40°	1558.2	47.4
0°-60°	2697.2	82.1
0°-90°	3286.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3286.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1234	1234	1234	1234	1234	
5°	1238	1234	1228	1231	1233	118
15°	1192	1195	1182	1181	1180	338
25°	1108	1107	1092	1096	1088	512
35°	986	985	969	936	931	620
45°	840	833	793	751	738	648
55°	659	639	586	551	532	589
65°	461	426	370	331	318	456
75°	256	209	156	124	110	269
85°	50	26	23	22	21	63
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1233.8	1233.8	1233.8	1233.8	1233.8
2.5°	1241.2	1236.8	1235.3	1240.5	1228.0
5°	1238.3	1233.8	1228.0	1230.9	1233.1
7.5°	1229.4	1225.8	1217.7	1224.3	1217.7
10°	1220.6	1216.9	1211.1	1213.3	1205.9
12.5°	1211.8	1203.0	1201.5	1203.0	1197.8
15°	1192.0	1194.9	1182.4	1180.9	1180.2
17.5°	1182.4	1175.1	1161.8	1162.6	1161.1
20°	1160.4	1151.5	1142.0	1140.5	1137.6
22.5°	1137.6	1127.3	1118.5	1122.9	1116.3
25°	1108.2	1106.7	1092.0	1096.4	1088.3
27.5°	1082.5	1077.3	1070.7	1061.2	1049.4
30°	1054.5	1049.4	1042.8	1017.8	1009.0
32.5°	1025.1	1019.3	1006.0	976.6	967.1
35°	986.2	984.7	968.6	935.5	931.1
37.5°	956.8	940.6	927.4	893.6	881.1
40°	921.5	912.7	881.8	849.5	833.3
42.5°	882.6	872.3	837.0	802.5	784.8
45°	840.0	832.6	792.9	751.0	738.5
47.5°	795.9	789.3	742.2	701.8	685.6
50°	753.2	745.2	688.6	649.6	634.9
52.5°	706.9	693.7	637.9	599.7	585.7
55°	659.2	639.3	585.7	551.2	532.0
57.5°	608.5	590.1	530.6	494.6	479.1
60°	564.4	538.7	477.7	440.9	421.1
62.5°	507.8	485.7	427.7	384.3	374.8
65°	460.8	426.2	370.4	330.7	318.2
67.5°	413.0	372.6	316.0	275.6	269.0
70°	360.8	318.9	260.9	221.2	210.2
72.5°	307.9	266.8	210.2	168.3	161.7
75°	256.5	209.4	155.8	123.5	109.5
77.5°	200.6	158.0	109.5	75.7	66.9
80°	149.2	106.6	63.2	44.8	44.1
82.5°	97.7	61.7	33.8	34.5	33.1
85°	50.0	26.5	22.8	22.0	21.3
87.5°	9.6	10.3	11.0	11.0	11.0
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	13.9	15.5	14.3	15.8	16.1	12.6	14.2	12.9	14.5	14.8
	3H	15.7	17.2	16.1	17.5	17.9	13.9	15.3	14.2	15.6	16.0
	4H	16.4	17.8	16.8	18.1	18.5	14.1	15.5	14.5	15.9	16.2
	6H	16.9	18.2	17.3	18.5	18.9	14.2	15.5	14.6	15.8	16.2
	8H	17.0	18.2	17.5	18.6	19.0	14.2	15.4	14.7	15.8	16.2
	12H	17.1	18.3	17.5	18.6	19.1	14.2	15.4	14.7	15.8	16.2
4H	2H	14.3	15.7	14.7	16.0	16.4	13.2	14.6	13.6	15.0	15.3
	3H	16.3	17.5	16.8	17.9	18.3	14.7	15.8	15.1	16.2	16.6
	4H	17.1	18.2	17.6	18.6	19.0	15.0	16.1	15.5	16.5	16.9
	6H	17.7	18.6	18.2	19.0	19.5	15.2	16.1	15.6	16.5	16.9
	8H	17.9	18.7	18.4	19.2	19.6	15.2	16.0	15.6	16.5	16.9
	12H	18.0	18.7	18.5	19.2	19.7	15.2	16.0	15.7	16.4	16.9
8H	4H	17.2	18.1	17.7	18.5	19.0	15.3	16.1	15.8	16.6	17.1
	6H	17.9	18.6	18.4	19.0	19.5	15.5	16.2	16.0	16.6	17.1
	8H	18.1	18.7	18.6	19.2	19.7	15.5	16.1	16.0	16.6	17.1
	12H	18.2	18.7	18.7	19.2	19.8	15.6	16.1	16.1	16.6	17.2
12H	4H	17.2	18.0	17.7	18.4	18.9	15.3	16.1	15.8	16.6	17.0
	6H	17.9	18.5	18.4	18.9	19.5	15.5	16.1	16.0	16.6	17.1
	8H	18.1	18.6	18.6	19.1	19.7	15.6	16.1	16.1	16.6	17.2

(END OF REPORT)