

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: P1050297

Luminaire Tested: PTR-14-40-PLG-L830-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050297
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2409-224-3)
Test Lab: INNOVATION CENTER
Issue Date: 7/11/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: PTR-14-40-PLG-L830-UNV-STD-W
Description: 8000 LUMEN 1X4 PERCEIVE PT TROFFER WITH 3000K, 80 CRI LEDS AND LOW GLARE LENS

Light Source:
Ballast/Driver: -

Summary

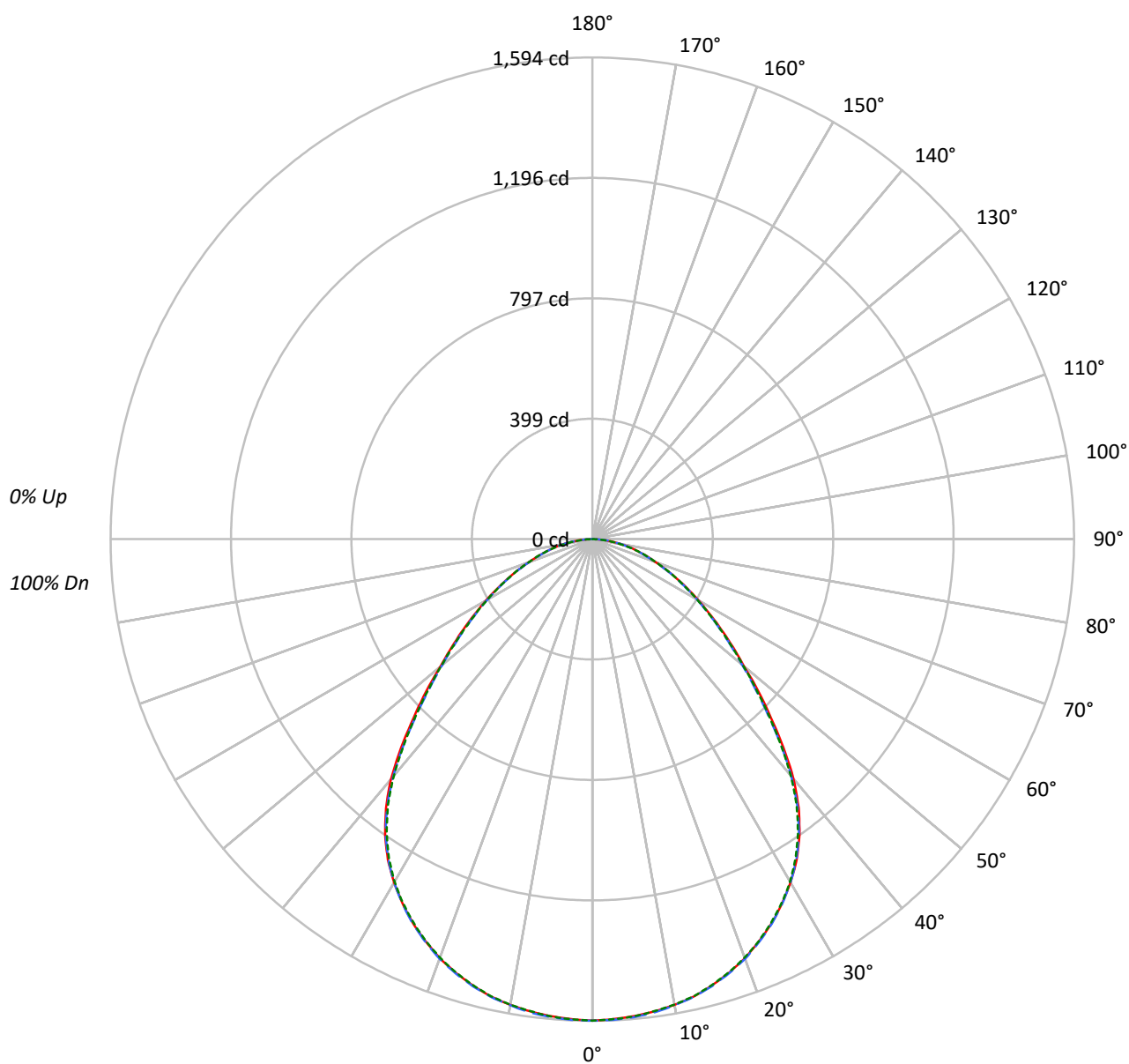
Lumens per Lamp: N/A
Luminaire Lumens: 3590.7 lumens
Efficiency: N/A
Efficacy: 111.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.26
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 32.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor:
Total Harmonic Distortion (THDi):
Frequency (hertz): 60
Stabilization Time: HR
Operation Time: HR
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	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86		
2	101	94	87	82	99	92	86	81	88	84	79	85	81	78	82	79	76	74		
3	93	83	76	70	91	82	75	69	79	73	68	76	71	67	74	69	66	64		
4	86	75	67	60	84	73	66	60	71	64	59	69	63	58	67	62	58	56		
5	79	67	59	53	77	66	58	53	64	57	52	62	56	51	61	55	51	49		
6	74	61	53	47	72	60	52	47	58	51	46	57	51	46	55	50	45	43		
7	69	56	48	42	67	55	47	42	54	46	41	52	46	41	51	45	41	39		
8	64	51	43	38	62	51	43	38	49	42	37	48	42	37	47	41	37	35		
9	60	47	39	34	59	47	39	34	46	39	34	44	38	34	43	38	34	32		
10	56	44	36	31	55	43	36	31	42	36	31	41	35	31	40	35	31	29		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4288	4288	4288
5°	4280	4289	4283
10°	4277	4280	4274
15°	4260	4266	4257
20°	4227	4233	4220
25°	4167	4171	4157
30°	4076	4076	4066
35°	3927	3916	3897
40°	3639	3600	3588
45°	3181	3129	3142
50°	2746	2713	2727
55°	2441	2403	2409
60°	2185	2155	2155
65°	1959	1945	1952
70°	1762	1744	1762
75°	1634	1611	1634
80°	1525	1508	1455
85°	1291	1291	1152

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3181 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.9	4.2
10°-20°	431.7	12.0
20°-30°	646.0	18.0
30°-40°	740.1	20.6
40°-50°	640.1	17.8
50°-60°	463.2	12.9
60°-70°	305.1	8.5
70°-80°	166.1	4.6
80°-90°	47.6	1.3
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°	1228.5	34.2
0°-40°	1968.6	54.8
0°-60°	3071.9	85.6
0°-90°	3590.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3590.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1594	1594	1594	1594	1594	
5°	1584	1588	1588	1588	1586	151
15°	1529	1530	1531	1534	1528	431
25°	1404	1404	1405	1406	1400	646
35°	1195	1194	1192	1191	1186	743
45°	836	834	822	821	826	647
55°	520	518	512	509	514	468
65°	308	310	305	303	306	307
75°	157	157	155	155	157	167
85°	42	42	42	43	37	48
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1593.6	1593.6	1593.6	1593.6	1593.6
2.5°	1590.2	1593.6	1592.4	1593.6	1590.2
5°	1584.5	1587.9	1587.9	1587.9	1585.6
7.5°	1576.6	1578.8	1580.0	1581.1	1575.5
10°	1565.3	1567.5	1566.4	1568.7	1564.1
12.5°	1550.6	1550.6	1551.7	1554.0	1549.4
15°	1529.1	1530.2	1531.3	1533.6	1528.0
17.5°	1504.2	1505.3	1506.5	1507.6	1503.1
20°	1475.9	1475.9	1478.2	1479.3	1473.7
22.5°	1440.9	1440.9	1443.1	1446.5	1439.7
25°	1403.5	1403.5	1404.7	1405.8	1400.2
27.5°	1359.4	1359.4	1360.6	1364.0	1357.2
30°	1311.9	1310.8	1311.9	1313.1	1308.5
32.5°	1258.8	1257.6	1256.5	1257.6	1252.0
35°	1195.4	1194.3	1192.1	1190.9	1186.4
37.5°	1121.9	1119.7	1115.1	1115.1	1110.6
40°	1036.0	1030.3	1024.7	1022.4	1021.3
42.5°	936.5	931.9	924.0	922.9	922.9
45°	835.8	833.5	822.2	821.1	825.6
47.5°	745.3	739.7	729.5	727.2	734.0
50°	656.0	657.1	648.1	644.7	651.4
52.5°	585.8	583.6	575.7	573.4	579.1
55°	520.3	518.0	512.3	508.9	513.5
57.5°	460.3	459.2	453.5	452.4	454.7
60°	406.0	404.9	400.4	399.2	400.4
62.5°	355.1	355.1	350.6	348.3	351.7
65°	307.6	309.9	305.4	303.1	306.5
67.5°	264.6	266.9	262.4	260.1	264.6
70°	223.9	226.2	221.7	219.4	223.9
72.5°	188.9	190.0	186.6	185.5	191.1
75°	157.2	157.2	154.9	154.9	157.2
77.5°	127.8	126.7	125.5	125.5	123.3
80°	98.4	97.3	97.3	97.3	93.9
82.5°	70.1	67.9	69.0	70.1	64.5
85°	41.8	41.8	41.8	43.0	37.3
87.5°	17.0	17.0	15.8	17.0	14.7
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)