

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: P1050250

Luminaire Tested: PTR-14-40-PL1-L840-UNV-STD-W

Issue Date: 7/11/2025

Test Information

Test Method: LM-79-2019
Report Number: P1050250
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P737719)
Test Lab: INNOVATION CENTER
Issue Date: 7/11/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: PTR-14-40-PL1-L840-UNV-STD-W
Description: 8000 LUMEN 1X4 PERCEIVE PT TROFFER WITH 4000K, 80 CRI LEDS AND LEAVES LENS

Light Source:
Ballast/Driver: -

Summary

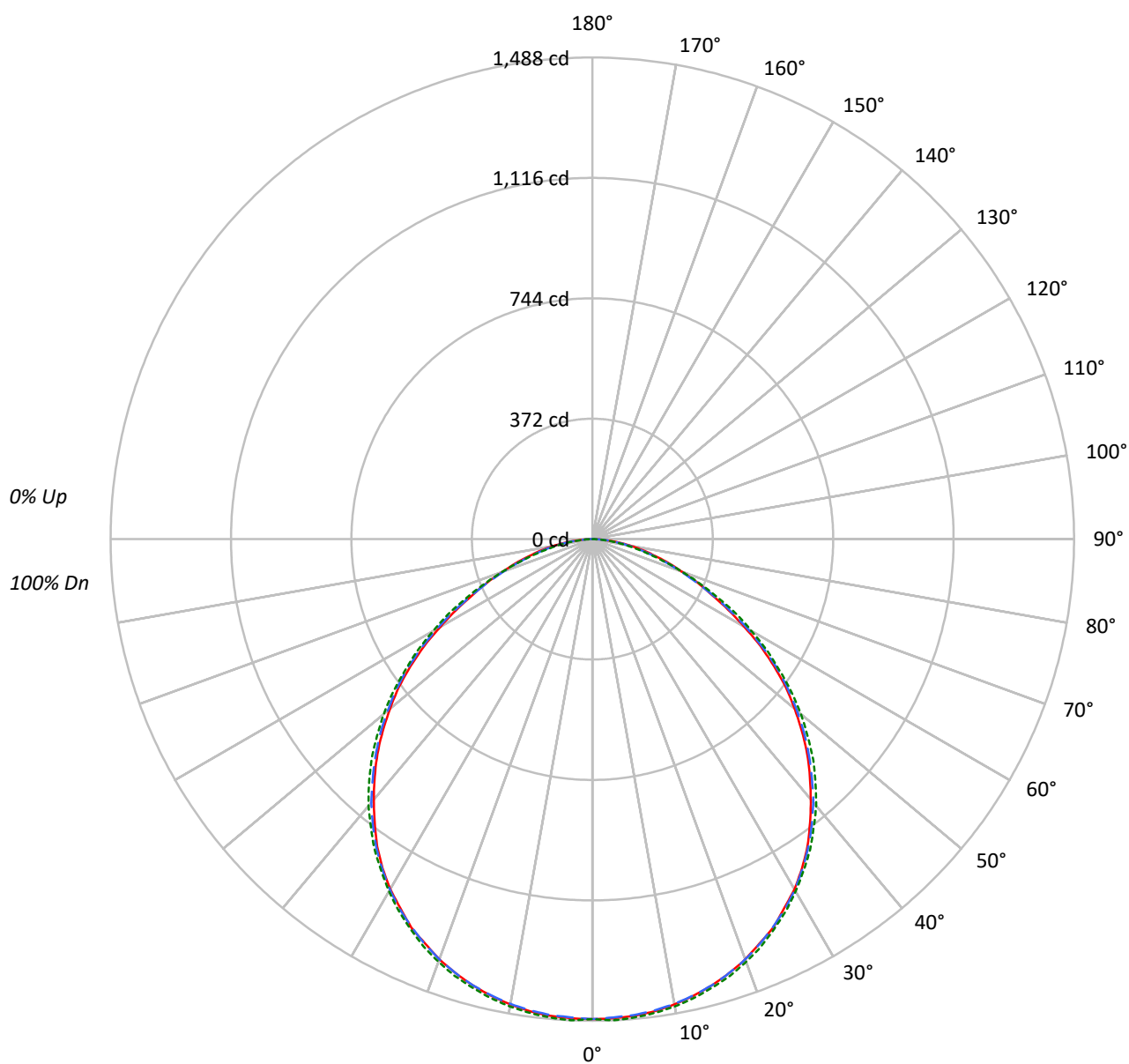
Lumens per Lamp: N/A
Luminaire Lumens: 3908.7 lumens
Efficiency: N/A
Efficacy: 121.8 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.26 / 1.35
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3990	3990	3990
5°	3994	3986	4008
10°	3989	3984	4007
15°	3977	3975	3995
20°	3956	3956	3979
25°	3930	3924	3946
30°	3880	3886	3904
35°	3806	3821	3851
40°	3688	3731	3778
45°	3573	3602	3672
50°	3416	3453	3521
55°	3217	3269	3307
60°	2918	2981	3054
65°	2592	2620	2725
70°	2317	2270	2327
75°	2090	1969	1931
80°	1900	1764	1565
85°	1609	1460	1257

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 3672 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.7	3.6
10°-20°	403.4	10.3
20°-30°	610.2	15.6
30°-40°	727.4	18.6
40°-50°	731.4	18.7
50°-60°	620.7	15.9
60°-70°	413.3	10.6
70°-80°	206.4	5.3
80°-90°	55.2	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°	1154.3	29.5
0°-40°	1881.7	48.1
0°-60°	3233.8	82.7
0°-90°	3908.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3908.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1483	1483	1483	1483	1483	
5°	1478	1479	1476	1482	1484	141
15°	1427	1429	1427	1433	1434	403
25°	1324	1324	1322	1328	1329	609
35°	1159	1160	1163	1171	1172	723
45°	939	940	947	959	965	722
55°	686	690	697	703	705	611
65°	407	410	411	418	428	408
75°	201	198	189	185	186	216
85°	52	51	47	44	41	60
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1482.9	1482.9	1482.9	1482.9	1482.9
2.5°	1481.7	1482.9	1478.9	1486.0	1487.8
5°	1478.5	1478.9	1475.7	1482.3	1483.8
7.5°	1471.3	1471.9	1468.5	1475.7	1476.7
10°	1459.7	1460.9	1458.1	1464.7	1466.3
12.5°	1444.9	1446.5	1443.7	1450.9	1452.1
15°	1427.4	1429.0	1426.8	1432.7	1433.9
17.5°	1405.8	1407.0	1405.8	1411.4	1414.6
20°	1381.6	1381.6	1381.6	1386.6	1389.4
22.5°	1351.5	1354.3	1353.1	1359.7	1362.5
25°	1323.5	1323.5	1321.7	1327.9	1328.9
27.5°	1284.4	1288.8	1288.4	1293.8	1295.0
30°	1248.7	1249.9	1250.5	1254.3	1256.5
32.5°	1205.4	1206.4	1208.2	1213.5	1214.1
35°	1158.7	1159.8	1163.0	1171.2	1172.4
37.5°	1104.4	1110.3	1113.1	1121.9	1122.9
40°	1049.9	1053.6	1062.0	1071.2	1075.6
42.5°	994.4	998.7	1003.7	1016.3	1020.3
45°	938.9	940.5	946.6	959.2	964.8
47.5°	877.4	882.4	887.8	898.7	902.1
50°	815.9	821.3	824.7	834.5	841.0
52.5°	753.8	758.8	762.6	768.6	775.2
55°	685.7	690.5	696.7	703.3	704.9
57.5°	616.5	621.8	625.8	632.8	640.0
60°	542.2	548.4	553.8	560.4	567.5
62.5°	473.1	475.7	481.3	492.3	502.7
65°	407.0	410.4	411.4	417.6	428.0
67.5°	352.1	352.1	347.2	349.4	360.9
70°	294.5	292.3	288.5	286.3	295.7
72.5°	247.7	244.9	236.8	233.0	238.0
75°	201.0	198.2	189.4	185.1	185.7
77.5°	161.5	157.1	149.9	142.3	140.7
80°	122.6	120.8	113.8	106.6	101.0
82.5°	86.8	83.0	79.1	74.7	70.3
85°	52.1	51.1	47.3	44.5	40.7
87.5°	21.4	21.4	20.4	19.2	18.2
90°	0.0	0.0	0.0	0.0	0.0



— 0°-180° - - 45°-225° 90°-270°

(END OF REPORT)