

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: P1471807

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

Issue Date: 6/22/2026

Test Information

Test Method: LM-79-2019
Report Number: P1471807
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-45S-L835-UNV-STD-B
Description: 4500 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3500K, 80 CRI LEDS AND Frosted Lens Black Recessed Frame
Light Source: -
Ballast/Driver: -

Summary

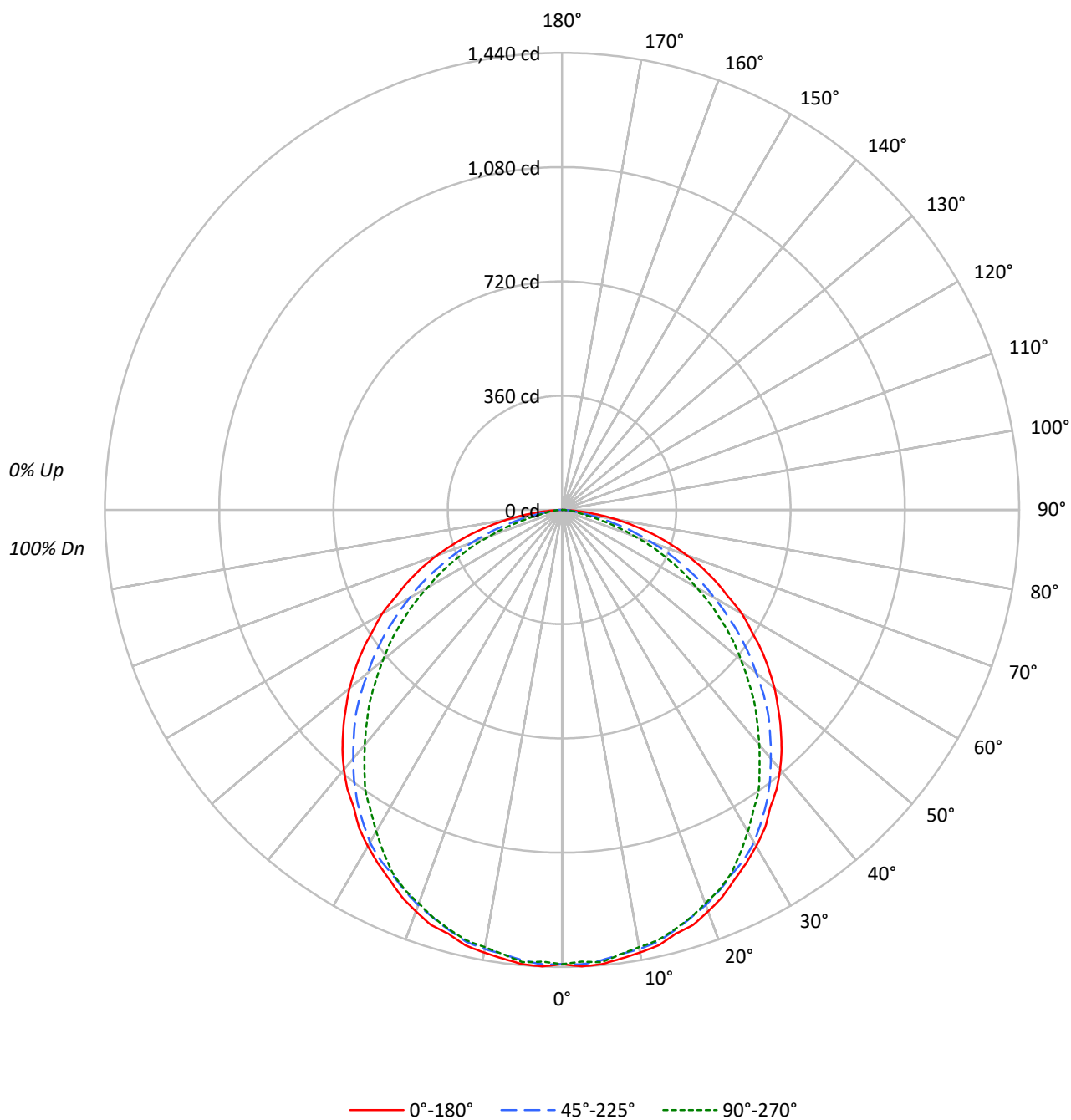
Lumens per Lamp: N/A
Luminaire Lumens: 3812.2 lumens
Efficiency: N/A
Efficacy: 107.1 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.21 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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	50	30	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		100
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85		85
2	100	92	85	80	97	90	84	79	87	81	77	83	79	75	80	77	74	72		72
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61		61
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52		52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45		45
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40		40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35		35
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31		31
9	57	44	36	31	56	44	36	30	42	35	30	41	35	30	40	34	30	28		28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	37	32	27	26		26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1926	1926	1926
5°	1940	1924	1932
10°	1934	1919	1911
15°	1926	1910	1907
20°	1927	1897	1889
25°	1908	1881	1874
30°	1900	1879	1818
35°	1879	1845	1774
40°	1877	1797	1698
45°	1854	1750	1630
50°	1829	1672	1542
55°	1794	1594	1448
60°	1762	1491	1314
65°	1702	1368	1175
70°	1646	1190	959
75°	1547	939	660
80°	1340	568	396
85°	895	408	381

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1854 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.7	3.6
10°-20°	388.2	10.2
20°-30°	586.4	15.4
30°-40°	697.2	18.3
40°-50°	707.1	18.5
50°-60°	614.0	16.1
60°-70°	435.9	11.4
70°-80°	208.3	5.5
80°-90°	39.5	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°	1110.2	29.1
0°-40°	1807.4	47.4
0°-60°	3128.5	82.1
0°-90°	3812.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3812.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1431	1431	1431	1431	1431	
5°	1436	1431	1424	1428	1430	136
15°	1383	1386	1372	1370	1369	392
25°	1285	1284	1267	1272	1262	594
35°	1144	1142	1124	1085	1080	719
45°	974	966	920	871	857	752
55°	765	742	679	639	617	683
65°	534	494	430	384	369	529
75°	298	243	181	143	127	312
85°	58	31	26	26	25	73
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1431.2	1431.2	1431.2	1431.2	1431.2
2.5°	1439.7	1434.6	1432.9	1438.8	1424.4
5°	1436.3	1431.2	1424.4	1427.8	1430.3
7.5°	1426.1	1421.8	1412.4	1420.1	1412.4
10°	1415.8	1411.6	1404.8	1407.3	1398.8
12.5°	1405.6	1395.4	1393.7	1395.4	1389.4
15°	1382.6	1386.0	1371.5	1369.8	1369.0
17.5°	1371.5	1363.0	1347.6	1348.5	1346.8
20°	1345.9	1335.7	1324.6	1322.9	1319.5
22.5°	1319.5	1307.6	1297.3	1302.5	1294.8
25°	1285.4	1283.7	1266.7	1271.8	1262.4
27.5°	1255.6	1249.6	1241.9	1230.9	1217.2
30°	1223.2	1217.2	1209.6	1180.6	1170.3
32.5°	1189.1	1182.3	1166.9	1132.8	1121.8
35°	1143.9	1142.2	1123.5	1085.1	1080.0
37.5°	1109.8	1091.1	1075.7	1036.5	1022.0
40°	1068.9	1058.7	1022.9	985.4	966.6
42.5°	1023.7	1011.8	970.9	930.8	910.4
45°	974.3	965.8	919.7	871.2	856.7
47.5°	923.1	915.5	860.9	814.0	795.3
50°	873.7	864.3	798.7	753.5	736.5
52.5°	820.0	804.7	739.9	695.6	679.4
55°	764.6	741.6	679.4	639.3	617.1
57.5°	705.8	684.5	615.4	573.7	555.8
60°	654.6	624.8	554.1	511.4	488.4
62.5°	589.0	563.4	496.1	445.8	434.7
65°	534.5	494.4	429.6	383.6	369.1
67.5°	479.0	432.2	366.5	319.6	312.0
70°	418.5	369.9	302.6	256.6	243.8
72.5°	357.2	309.4	243.8	195.2	187.5
75°	297.5	242.9	180.7	143.2	127.0
77.5°	232.7	183.3	127.0	87.8	77.6
80°	173.0	123.6	73.3	52.0	51.1
82.5°	113.4	71.6	39.2	40.1	38.4
85°	58.0	30.7	26.4	25.6	24.7
87.5°	11.1	11.9	12.8	12.8	12.8
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	14.4	16.0	14.8	16.3	16.6	13.1	14.7	13.5	15.0	15.3
	3H	16.2	17.7	16.6	18.0	18.4	14.4	15.8	14.7	16.1	16.5
	4H	16.9	18.3	17.3	18.6	19.0	14.7	16.0	15.1	16.4	16.7
	6H	17.4	18.7	17.8	19.0	19.4	14.7	16.0	15.1	16.4	16.7
	8H	17.6	18.8	18.0	19.1	19.5	14.7	15.9	15.2	16.3	16.7
	12H	17.6	18.8	18.1	19.2	19.6	14.8	15.9	15.2	16.3	16.7
4H	2H	14.8	16.2	15.2	16.5	16.9	13.8	15.1	14.2	15.5	15.8
	3H	16.9	18.0	17.3	18.4	18.8	15.2	16.3	15.6	16.7	17.1
	4H	17.7	18.7	18.1	19.1	19.5	15.6	16.6	16.0	17.0	17.4
	6H	18.2	19.1	18.7	19.6	20.0	15.7	16.6	16.1	17.0	17.5
	8H	18.4	19.2	18.9	19.7	20.1	15.7	16.5	16.2	17.0	17.4
	12H	18.5	19.2	19.0	19.7	20.2	15.7	16.5	16.2	16.9	17.4
8H	4H	17.7	18.6	18.2	19.0	19.5	15.8	16.7	16.3	17.1	17.6
	6H	18.4	19.1	18.9	19.6	20.0	16.0	16.7	16.5	17.2	17.6
	8H	18.6	19.2	19.1	19.7	20.2	16.0	16.6	16.5	17.1	17.6
	12H	18.7	19.3	19.2	19.8	20.3	16.1	16.6	16.6	17.1	17.7
12H	4H	17.7	18.5	18.2	18.9	19.4	15.9	16.6	16.3	17.1	17.5
	6H	18.4	19.0	18.9	19.4	20.0	16.0	16.6	16.5	17.1	17.6
	8H	18.6	19.1	19.1	19.6	20.2	16.1	16.6	16.6	17.1	17.7

(END OF REPORT)