Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

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: P1471800

Luminaire Tested: 24PTR-40S-PLG-L835-UNV-STD-W

Issue Date: 6/22/2026

Test Information

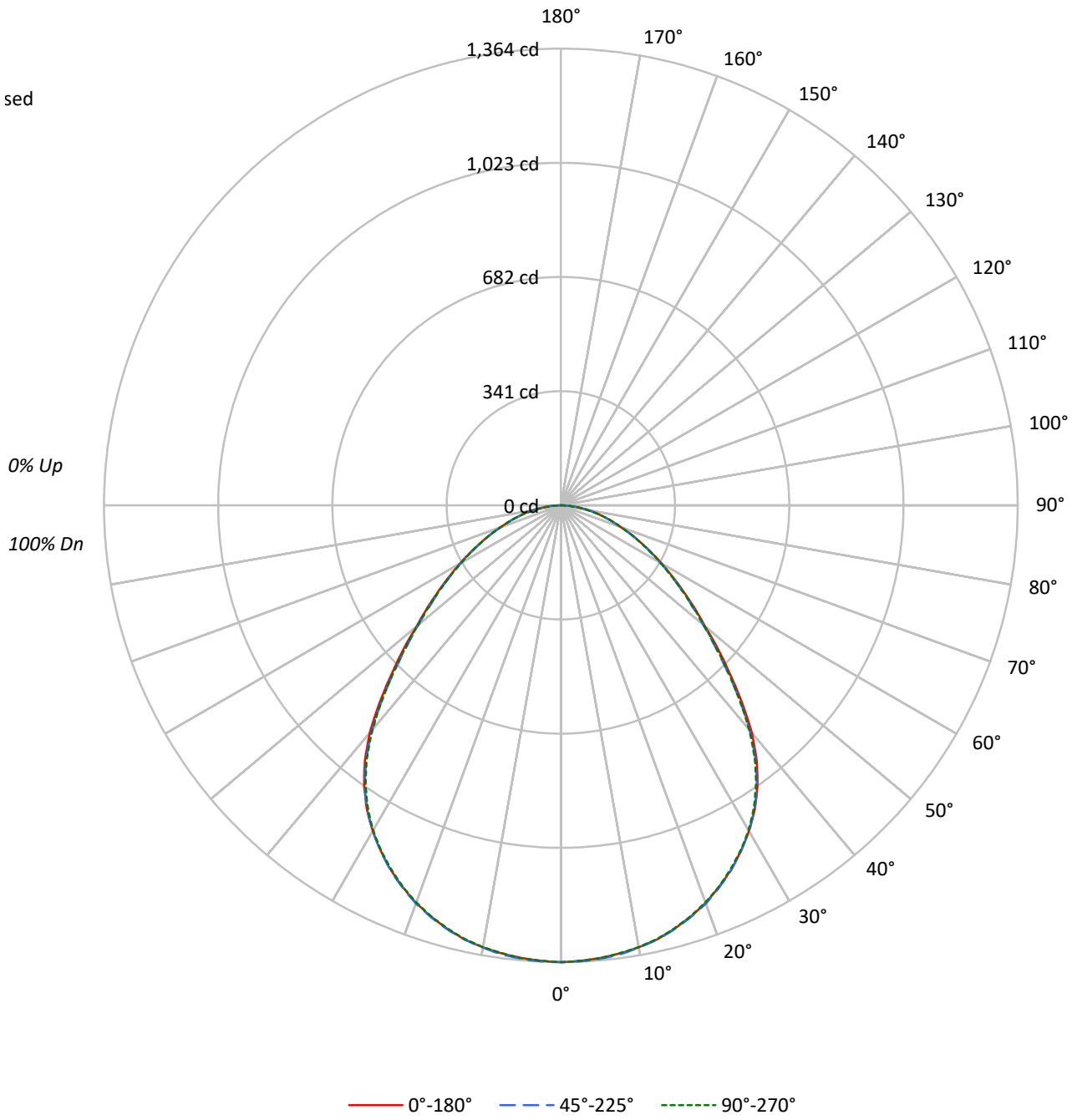
Test Method:	LM-79-2019
Report Number:	P1471800
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2409-224-3)
Test Lab:	INNOVATION CENTER
Issue Date:	6/22/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	CORELITE
Catalog Number:	24PTR-40S-PLG-L835-UNV-STD-W
Description:	4000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3500K, 80 CRI LEDS AND PLG Lens White Reces Frame
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	3074.6 lumens
Efficiency:	N/A
Efficacy:	101.5 lumens/watt
Spacing Criteria (0/90/45):	1.22 / 1.22 / 1.26
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

TEST NUMBER: P1471800
CATALOG NUMBER: 24PTR-40S-PLG-L835-UNV-STD-W

Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20			20			20			20
RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
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°	1836	1836	1836
5°	1833	1836	1834
10°	1831	1833	1830
15°	1824	1826	1822
20°	1810	1812	1807
25°	1784	1786	1780
30°	1745	1745	1741
35°	1681	1677	1669
40°	1558	1541	1536
45°	1362	1340	1345
50°	1176	1162	1168
55°	1045	1029	1031
60°	936	922	922
65°	839	833	835
70°	754	747	754
75°	700	690	700
80°	653	645	623
85°	553	553	494

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 1362 cd/sqm

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CATALOG NUMBER: 24PTR-40S-PLG-L835-UNV-STD-W

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.2	4.2
10°-20°	369.7	12.0
20°-30°	553.1	18.0
30°-40°	633.7	20.6
40°-50°	548.1	17.8
50°-60°	396.7	12.9
60°-70°	261.3	8.5
70°-80°	142.2	4.6
80°-90°	40.8	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°	1051.9	34.2
0°-40°	1685.7	54.8
0°-60°	2630.4	85.6
0°-90°	3074.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3074.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1364	1364	1364	1364	1364	
5°	1357	1360	1360	1360	1358	129
15°	1309	1310	1311	1313	1308	369
25°	1202	1202	1203	1204	1199	553
35°	1024	1023	1021	1020	1016	636
45°	716	714	704	703	707	554
55°	446	444	439	436	440	401
65°	263	265	262	260	262	263
75°	135	135	133	133	135	143
85°	36	36	36	37	32	41
90°	0	0	0	0	0	

TEST NUMBER: P1471800
CATALOG NUMBER: 24PTR-40S-PLG-L835-UNV-STD-W

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	*1364.5*	*1364.5*	*1364.5*	*1364.5*	*1364.5*
2.5°	*1361.6*	1364.5	1363.5	1364.5	1361.6
5°	*1356.8*	1359.7	1359.7	1359.7	1357.7
7.5°	*1350.0*	1351.9	1352.9	1353.9	1349.0
10°	*1340.3*	1342.2	1341.3	1343.2	1339.3
12.5°	*1327.7*	1327.7	1328.7	1330.6	1326.7
15°	*1309.3*	1310.3	1311.2	1313.2	1308.3
17.5°	*1288.0*	1289.0	1289.9	1290.9	1287.0
20°	*1263.8*	1263.8	1265.7	1266.7	1261.9
22.5°	*1233.8*	1233.8	1235.7	1238.6	1232.8
25°	*1201.8*	1201.8	1202.8	1203.8	1198.9
27.5°	*1164.0*	1164.0	1165.0	1167.9	1162.1
30°	*1123.4*	1122.4	1123.4	1124.3	1120.5
32.5°	*1077.9*	1076.9	1075.9	1076.9	1072.0
35°	*1023.6*	1022.7	1020.7	1019.7	1015.9
37.5°	*960.7*	958.7	954.9	954.9	951.0
40°	*887.1*	882.2	877.4	875.5	874.5
42.5°	*801.9*	798.0	791.2	790.2	790.2
45°	*715.7*	713.7	704.0	703.1	706.9
47.5°	*638.2*	633.3	624.6	622.7	628.5
50°	*561.7*	562.7	554.9	552.0	557.8
52.5°	*501.6*	499.7	492.9	491.0	495.8
55°	*445.5*	443.5	438.7	435.8	439.7
57.5°	*394.1*	393.2	388.3	387.4	389.3
60°	*347.7*	346.7	342.8	341.9	342.8
62.5°	*304.1*	304.1	300.2	298.3	301.2
65°	*263.4*	265.3	261.5	259.5	262.4
67.5°	*226.6*	228.5	224.7	222.7	226.6
70°	*191.7*	193.7	189.8	187.9	191.7
72.5°	*161.7*	162.7	159.8	158.8	163.7
75°	*134.6*	134.6	132.7	132.7	134.6
77.5°	*109.4*	108.5	107.5	107.5	105.6
80°	*84.3*	83.3	83.3	83.3	80.4
82.5°	*60.0*	58.1	59.1	60.0	55.2
85°	*35.8*	35.8	35.8	36.8	32.0
87.5°	*14.5*	14.5	13.6	14.5	12.6
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	11.4	12.9	11.7	13.2	13.5	11.3	12.8	11.6	13.1	13.4
	3H	12.8	14.2	13.2	14.5	14.9	12.7	14.1	13.1	14.4	14.8
	4H	13.4	14.6	13.8	15.0	15.4	13.3	14.5	13.7	14.9	15.3
	6H	13.8	15.0	14.2	15.3	15.7	13.7	14.9	14.1	15.2	15.6
	8H	13.9	15.1	14.4	15.4	15.8	13.8	14.9	14.2	15.3	15.7
	12H	14.0	15.1	14.5	15.5	15.9	13.9	15.0	14.3	15.3	15.8
4H	2H	11.9	13.1	12.3	13.5	13.9	11.8	13.0	12.2	13.4	13.8
	3H	13.5	14.6	13.9	15.0	15.4	13.4	14.5	13.8	14.9	15.3
	4H	14.2	15.1	14.6	15.6	16.0	14.1	15.1	14.5	15.5	15.9
	6H	14.8	15.6	15.2	16.0	16.5	14.7	15.5	15.1	15.9	16.4
	8H	15.0	15.7	15.4	16.2	16.6	14.8	15.6	15.3	16.1	16.5
	12H	15.1	15.8	15.6	16.3	16.7	15.0	15.7	15.4	16.1	16.6
8H	4H	14.4	15.2	14.9	15.7	16.1	14.4	15.1	14.8	15.6	16.0
	6H	15.1	15.8	15.6	16.3	16.7	15.0	15.7	15.5	16.2	16.7
	8H	15.4	16.0	15.9	16.5	17.0	15.3	15.9	15.8	16.4	16.9
	12H	15.6	16.1	16.1	16.6	17.2	15.5	16.0	16.0	16.5	17.1
12H	4H	14.5	15.1	14.9	15.6	16.1	14.4	15.1	14.9	15.6	16.0
	6H	15.2	15.8	15.7	16.2	16.8	15.1	15.7	15.6	16.1	16.7
	8H	15.5	16.0	16.0	16.5	17.1	15.4	15.9	15.9	16.4	17.0

(END OF REPORT)