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: P1471794

Luminaire Tested: 24PTR-40S-PB1-L835-UNV-STD-W

Issue Date: 6/22/2026

Test Information

Test Method:	LM-79-2019
Report Number:	P1471794
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P737703)
Test Lab:	INNOVATION CENTER
Issue Date:	6/22/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	CORELITE
Catalog Number:	24PTR-40S-PB1-L835-UNV-STD-W
Description:	4000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3500K, 80 CRI LEDS AND PB1 Lens White Reces
	Frame
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	3609.6 lumens
Efficiency:	N/A
Efficacy:	119.1 lumens/watt
Spacing Criteria (0/90/45):	1.26 / 1.25 / 1.34
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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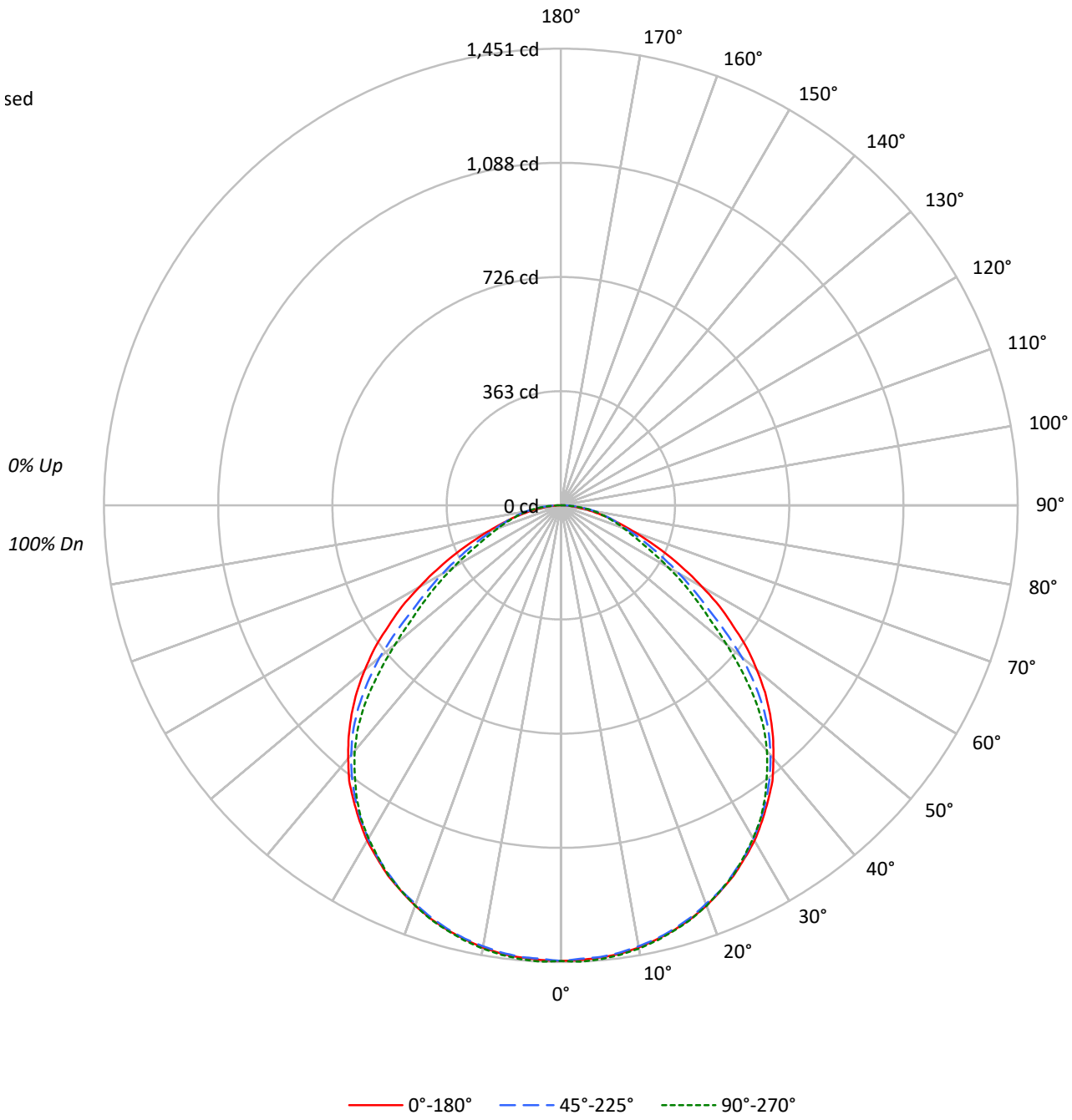
Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20			20			20			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	105	101	98	107	103	99	96	99	96	93	95	93	90	91	89	88	86
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75	73
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	64	62
4	85	73	65	59	83	72	64	58	70	63	58	67	62	57	65	60	56	54
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47
6	72	60	51	45	71	59	51	45	57	50	44	55	49	44	54	48	44	42
7	67	54	46	40	66	53	45	40	52	45	39	51	44	39	49	43	39	37
8	63	50	41	36	61	49	41	36	48	41	35	46	40	35	45	39	35	33
9	59	46	38	32	57	45	37	32	44	37	32	43	36	32	42	36	32	30
10	55	42	34	29	54	42	34	29	41	34	29	40	33	29	39	33	29	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1948	1948	1948
5°	1948	1946	1955
10°	1949	1944	1953
15°	1945	1940	1947
20°	1938	1930	1938
25°	1927	1919	1924
30°	1912	1901	1898
35°	1883	1869	1857
40°	1845	1820	1789
45°	1789	1731	1660
50°	1700	1569	1435
55°	1566	1333	1236
60°	1394	1164	1059
65°	1196	1009	902
70°	987	890	827
75°	833	851	806
80°	704	869	828
85°	551	880	770

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 1789 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.3	3.8
10°-20°	393.8	10.9
20°-30°	596.6	16.5
30°-40°	710.9	19.7
40°-50°	695.2	19.3
50°-60°	525.8	14.6
60°-70°	323.0	8.9
70°-80°	172.1	4.8
80°-90°	54.9	1.5
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°	1127.7	31.2
0°-40°	1838.6	50.9
0°-60°	3059.5	84.8
0°-90°	3609.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3609.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1448	1448	1448	1448	1448	
5°	1442	1444	1440	1446	1448	137
15°	1396	1398	1392	1398	1398	394
25°	1298	1296	1293	1294	1296	598
35°	1147	1145	1138	1132	1131	717
45°	940	935	910	880	872	723
55°	668	634	568	536	527	598
65°	376	345	317	292	283	374
75°	160	162	164	158	155	172
85°	36	46	57	54	50	43
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1447.6	1447.6	1447.6	1447.6	*1447.6*
2.5°	*1445.9*	*1447.6*	*1442.2*	*1449.4*	*1451.1*
5°	1442.2	1444.0	1440.5	1445.9	*1447.6*
7.5°	1436.9	1436.9	1433.4	1438.6	*1440.5*
10°	1426.3	1426.3	1422.7	1427.9	*1429.8*
12.5°	1412.1	1412.1	1410.2	1413.7	*1415.6*
15°	1396.0	1397.7	1392.4	1397.7	*1397.7*
17.5°	1376.4	1374.7	1372.8	1376.4	*1378.2*
20°	1353.2	1353.2	1347.9	1351.5	*1353.2*
22.5°	1326.4	1326.4	1324.8	1326.4	*1324.8*
25°	1298.0	1296.2	1292.6	1294.5	*1296.2*
27.5°	1264.2	1264.2	1260.6	1260.6	*1258.8*
30°	1230.4	1228.5	1223.3	1219.7	*1221.4*
32.5°	1189.4	1187.6	1182.3	1178.8	*1180.5*
35°	1146.6	1144.9	1137.8	1132.4	*1130.7*
37.5°	1104.0	1098.6	1089.6	1082.5	*1075.4*
40°	1050.5	1045.1	1036.3	1020.3	*1018.4*
42.5°	997.1	991.8	977.5	958.0	*952.6*
45°	940.1	934.8	909.8	879.5	*872.4*
47.5°	879.5	870.7	831.5	794.1	*779.9*
50°	812.0	795.9	749.6	701.5	*685.5*
52.5°	746.0	717.6	657.1	614.2	*598.4*
55°	667.7	633.9	568.1	535.9	*527.0*
57.5°	598.4	552.0	498.5	466.6	*459.5*
60°	518.2	475.4	432.7	404.1	*393.5*
62.5°	445.1	407.7	372.2	347.1	*334.8*
65°	375.7	345.4	317.0	292.0	*283.2*
67.5°	308.1	292.0	268.8	249.4	*243.9*
70°	251.0	242.1	226.2	217.2	*210.1*
72.5°	199.5	203.0	192.3	188.8	*183.4*
75°	160.2	162.1	163.7	158.5	*155.0*
77.5°	121.1	129.9	137.0	133.5	*129.9*
80°	90.8	99.6	112.2	106.9	*106.9*
82.5°	62.2	73.1	83.7	80.2	*78.3*
85°	35.7	46.4	57.0	53.5	*49.9*
87.5°	14.2	23.2	24.9	24.9	*23.2*
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	13.2	14.8	13.6	15.1	15.4	11.9	13.5	12.3	13.8	14.1
	3H	14.4	15.8	14.8	16.2	16.5	13.2	14.6	13.6	14.9	15.3
	4H	14.9	16.2	15.3	16.5	16.9	13.7	15.0	14.1	15.4	15.8
	6H	15.1	16.4	15.6	16.7	17.1	14.2	15.4	14.6	15.8	16.2
	8H	15.2	16.4	15.7	16.8	17.2	14.4	15.6	14.8	16.0	16.4
	12H	15.3	16.4	15.7	16.8	17.2	14.6	15.7	15.0	16.0	16.5
4H	2H	13.5	14.8	13.9	15.2	15.6	12.4	13.8	12.8	14.1	14.5
	3H	15.0	16.1	15.4	16.5	16.9	13.9	15.0	14.4	15.4	15.8
	4H	15.5	16.5	16.0	16.9	17.4	14.6	15.6	15.1	16.0	16.5
	6H	16.0	16.8	16.4	17.2	17.7	15.3	16.1	15.7	16.6	17.0
	8H	16.1	16.9	16.5	17.3	17.8	15.5	16.3	16.0	16.8	17.2
	12H	16.2	16.9	16.7	17.4	17.8	15.7	16.4	16.2	16.9	17.4
8H	4H	15.7	16.5	16.2	17.0	17.4	14.9	15.7	15.4	16.2	16.6
	6H	16.3	16.9	16.8	17.4	17.9	15.7	16.4	16.2	16.9	17.4
	8H	16.5	17.1	17.0	17.6	18.1	16.1	16.7	16.6	17.2	17.7
	12H	16.7	17.2	17.2	17.7	18.2	16.4	16.9	16.9	17.4	17.9
12H	4H	15.8	16.5	16.2	17.0	17.4	15.0	15.7	15.4	16.2	16.6
	6H	16.4	17.0	16.9	17.4	18.0	15.8	16.4	16.3	16.9	17.4
	8H	16.6	17.1	17.1	17.6	18.2	16.2	16.7	16.7	17.2	17.8

(END OF REPORT)