

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P738423

Luminaire Tested: **24PT-20-PW1-L830**

Issue Date: 2/8/2024



Test Information

Test Method: LM-79-08
Report Number: P738423
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2210-816-13)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/8/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 24PT-20-PW1-L830
Description: 2000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3000K, 80 CRI LEDS AND WAVES LENS

Light Source: -
Ballast/Driver: -

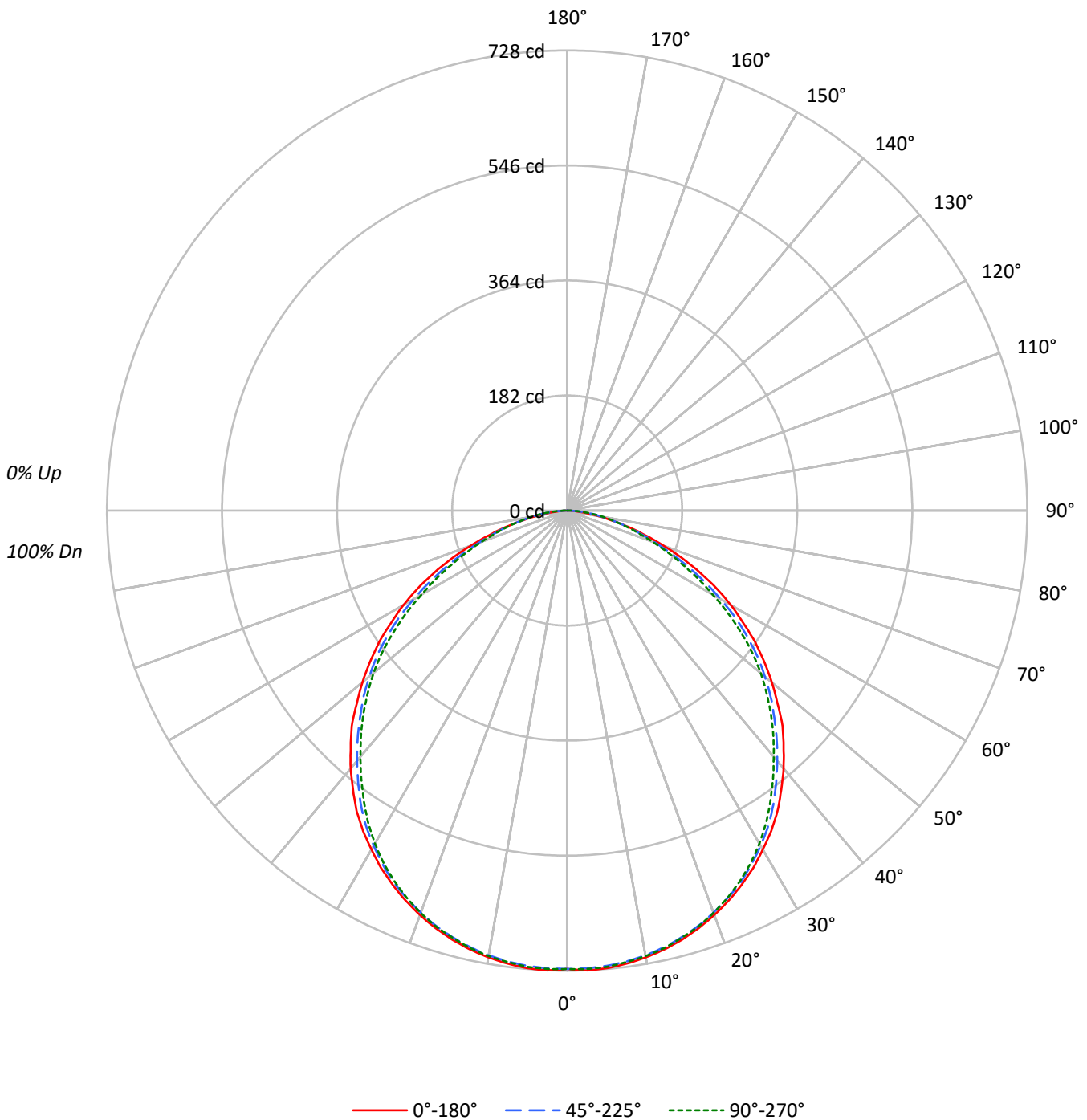
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1934.0 lumens
Efficiency: N/A
Efficacy: 128.1 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.24 / 1.35
Luminous Opening: Rectangular (W 1.92' x L: 3.92' x H: 0')
CIE Type: Direct

Input Watts (W): 15.1
Input Voltage (V): NR
Input Current (A_{in}): 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: 25 FT

TEST NUMBER: P738423
CATALOG NUMBER: 24PT-20-PW1-L830

Luminous Intensity Polar Plot





TEST NUMBER: P738423

CATALOG NUMBER: 24PT-20-PW1-L830

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	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	109	105	101	97	107	103	99	95	98	95	92		94	92	90		91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77		83	79	75		80	77	74	71
3	91	81	73	67	89	79	72	66	76	70	65		74	68	64		71	67	63	61
4	84	72	63	57	81	71	63	56	68	61	56		66	60	55		64	58	54	52
5	77	64	56	49	75	63	55	49	61	54	48		59	53	48		57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42		54	47	42		52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38		49	42	37		48	42	37	35
8	61	48	40	34	60	47	39	34	46	39	34		45	38	33		44	38	33	31
9	57	44	36	31	56	44	36	31	42	35	30		41	35	30		40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	28		38	32	27		37	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1040	1040	1040
5°	1046	1041	1043
10°	1045	1040	1042
15°	1043	1037	1039
20°	1039	1033	1033
25°	1033	1027	1023
30°	1025	1013	1007
35°	1016	995	981
40°	997	968	952
45°	978	940	924
50°	943	911	892
55°	908	870	838
60°	859	806	764
65°	786	718	681
70°	681	623	600
75°	558	537	530
80°	407	459	472
85°	273	383	406



TEST NUMBER: P738423

CATALOG NUMBER: 24PT-20-PW1-L830

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.8	3.6
10°-20°	197.5	10.2
20°-30°	298.9	15.5
30°-40°	355.6	18.4
40°-50°	359.2	18.6
50°-60°	310.8	16.1
60°-70°	212.4	11.0
70°-80°	104.6	5.4
80°-90°	26.2	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°	565.2	29.2
0°-40°	920.8	47.6
0°-60°	1590.9	82.3
0°-90°	1934.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1934.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	725	725	725	725	725	
5°	727	724	723	722	724	69
15°	703	700	699	698	700	198
25°	653	651	649	647	647	301
35°	580	576	569	562	561	362
45°	482	474	463	458	456	370
55°	363	358	348	340	335	324
65°	232	223	212	205	201	229
75°	101	98	97	96	96	108
85°	17	20	23	24	25	21
90°	0	0	0	0	0	



TEST NUMBER: P738423

CATALOG NUMBER: 24PT-20-PW1-L830

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	725.3	725.3	725.3	725.3	725.3
2.5°	728.3	725.5	724.7	724.1	726.0
5°	726.6	723.9	723.0	722.4	724.5
7.5°	723.0	720.3	719.5	718.8	720.5
10°	717.8	715.3	714.4	713.8	715.7
12.5°	711.1	708.8	707.7	706.9	709.0
15°	702.7	700.4	698.9	698.5	699.7
17.5°	692.6	690.3	689.3	688.6	690.1
20°	680.9	678.4	676.9	676.0	677.3
22.5°	667.9	665.4	663.5	662.6	663.0
25°	653.2	650.7	649.4	646.9	646.9
27.5°	637.5	634.5	631.4	628.7	628.9
30°	619.2	615.9	612.1	608.5	608.3
32.5°	600.8	596.6	592.0	587.1	585.7
35°	580.4	575.6	568.7	562.4	560.7
37.5°	556.5	552.1	542.9	537.7	534.9
40°	532.8	526.5	517.1	511.0	508.5
42.5°	506.8	500.7	490.7	485.0	482.9
45°	482.1	473.9	463.4	458.2	455.9
47.5°	451.3	444.5	437.2	431.1	428.2
50°	422.7	417.3	408.5	401.8	399.9
52.5°	393.0	388.3	380.0	371.2	369.1
55°	363.4	358.4	347.9	340.5	335.3
57.5°	330.1	325.7	315.8	306.4	301.7
60°	299.4	291.9	281.0	270.7	266.5
62.5°	266.1	258.8	246.2	235.7	233.4
65°	231.7	222.9	211.6	204.7	200.7
67.5°	196.9	188.3	178.9	174.5	171.9
70°	162.5	155.6	148.5	145.3	143.0
72.5°	129.4	125.4	121.4	120.2	118.1
75°	100.7	97.7	96.9	96.2	95.6
77.5°	72.6	74.0	74.9	75.7	74.9
80°	49.3	52.4	55.6	57.2	57.2
82.5°	30.4	35.9	38.6	40.3	40.1
85°	16.6	20.5	23.3	24.1	24.7
87.5°	6.7	8.4	9.4	10.3	10.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)