

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: P738408

Luminaire Tested: **24PT-20-PL1-L835**

Issue Date: 2/8/2024



**Test Information**

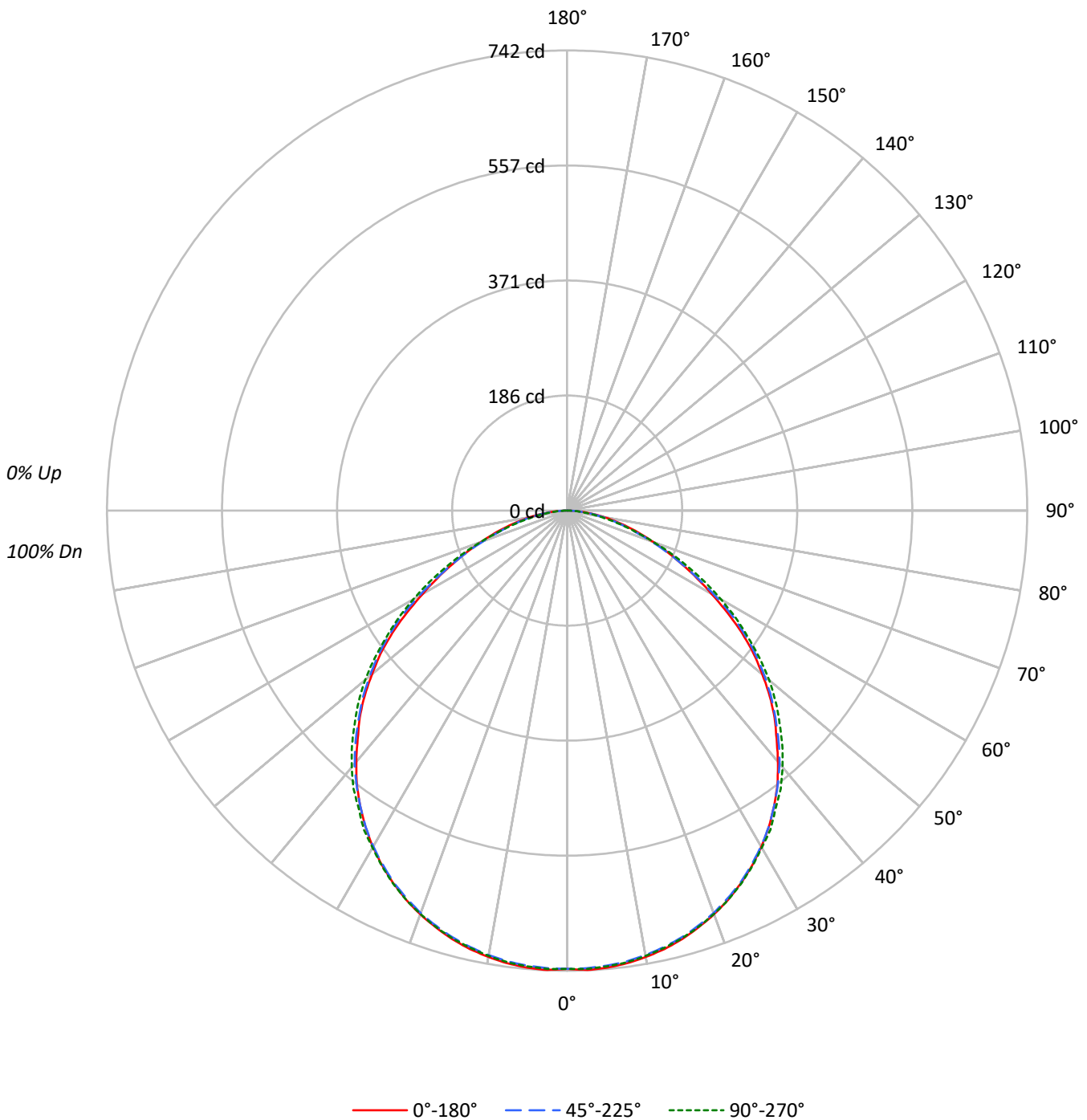
Test Method: LM-79-08  
Report Number: P738408  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2210-816-14)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/8/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 24PT-20-PL1-L835  
Description: 2000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3500K, 80 CRI LEDS AND LEAVES LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1956.0 lumens  
Efficiency: N/A  
Efficacy: 129.5 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 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<sub>in</sub>): 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

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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	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	96	98	95	93		95	92	90		91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77		83	79	76		80	77	74	72
3	91	81	73	67	89	80	72	67	77	70	65		74	69	64		71	67	63	61
4	84	72	64	57	82	71	63	57	68	62	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	40	33	28	40	33	28		39	32	28		38	32	28	26

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	1060	1060	1060
5°	1065	1060	1062
10°	1064	1060	1062
15°	1062	1058	1060
20°	1057	1054	1056
25°	1049	1047	1050
30°	1037	1035	1039
35°	1018	1018	1026
40°	990	997	1011
45°	959	964	982
50°	916	927	949
55°	860	876	889
60°	772	791	820
65°	691	692	730
70°	616	600	620
75°	557	524	514
80°	495	462	407
85°	405	385	318



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	70.1	3.6
10°-20°	201.3	10.3
20°-30°	304.9	15.6
30°-40°	364.4	18.6
40°-50°	367.6	18.8
50°-60°	311.9	15.9
60°-70°	206.3	10.5
70°-80°	102.4	5.2
80°-90°	27.1	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°	576.3	29.5
0°-40°	940.7	48.1
0°-60°	1620.2	82.8
0°-90°	1956.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1956.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	739	739	739	739	739	
5°	740	737	737	736	738	70
15°	716	713	713	713	714	202
25°	663	662	662	661	664	305
35°	582	581	582	585	586	363
45°	473	472	475	482	484	364
55°	344	345	350	354	356	306
65°	204	203	204	210	215	203
75°	100	98	94	92	93	108
85°	25	25	23	22	19	29
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	739.0	739.0	739.0	739.0	739.0
2.5°	741.5	739.2	738.5	738.1	739.8
5°	739.8	737.3	736.6	736.2	737.7
7.5°	736.4	733.7	733.2	732.8	734.7
10°	730.9	728.3	727.9	727.5	729.2
12.5°	724.3	721.8	720.9	721.1	722.2
15°	715.6	713.3	712.6	712.6	714.1
17.5°	704.8	702.6	702.2	702.0	703.9
20°	692.7	690.5	690.5	691.2	692.2
22.5°	678.9	677.4	676.5	676.9	679.1
25°	663.1	661.7	661.7	661.4	663.8
27.5°	645.7	643.8	643.8	645.5	646.4
30°	626.2	624.5	625.3	626.6	627.5
32.5°	605.2	604.1	604.7	606.6	610.0
35°	581.6	580.7	581.8	585.0	586.2
37.5°	556.9	556.3	557.8	562.0	565.6
40°	528.9	528.9	532.9	536.8	540.2
42.5°	499.8	501.7	504.7	510.6	513.6
45°	473.0	472.4	475.2	481.5	484.5
47.5°	443.3	442.7	446.7	451.2	456.0
50°	410.8	410.6	415.5	419.3	425.5
52.5°	379.1	381.1	384.2	387.6	391.3
55°	344.1	345.0	350.5	353.7	355.8
57.5°	306.3	309.1	315.9	320.5	322.4
60°	269.3	271.0	275.9	284.2	286.1
62.5°	235.8	236.4	239.4	248.7	251.3
65°	203.7	203.3	204.1	210.5	215.2
67.5°	174.6	172.9	172.9	176.3	182.0
70°	147.0	144.4	143.0	144.0	148.0
72.5°	123.8	120.4	116.6	116.0	118.5
75°	100.5	97.7	94.5	91.5	92.8
77.5°	80.1	77.7	74.8	71.4	69.7
80°	59.9	59.0	55.9	52.7	49.3
82.5°	41.8	41.2	39.1	36.5	34.4
85°	24.6	24.6	23.4	21.5	19.3
87.5°	11.0	10.6	11.0	9.3	8.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)