

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: P738576

Luminaire Tested: **24PT-50-PR1-L835**

Issue Date: 2/8/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P738576  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2210-816-15)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/8/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 24PT-50-PR1-L835  
Description: 5000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3500K, 80 CRI LEDS AND RIPPLE LENS  
  
Light Source: -  
Ballast/Driver: -

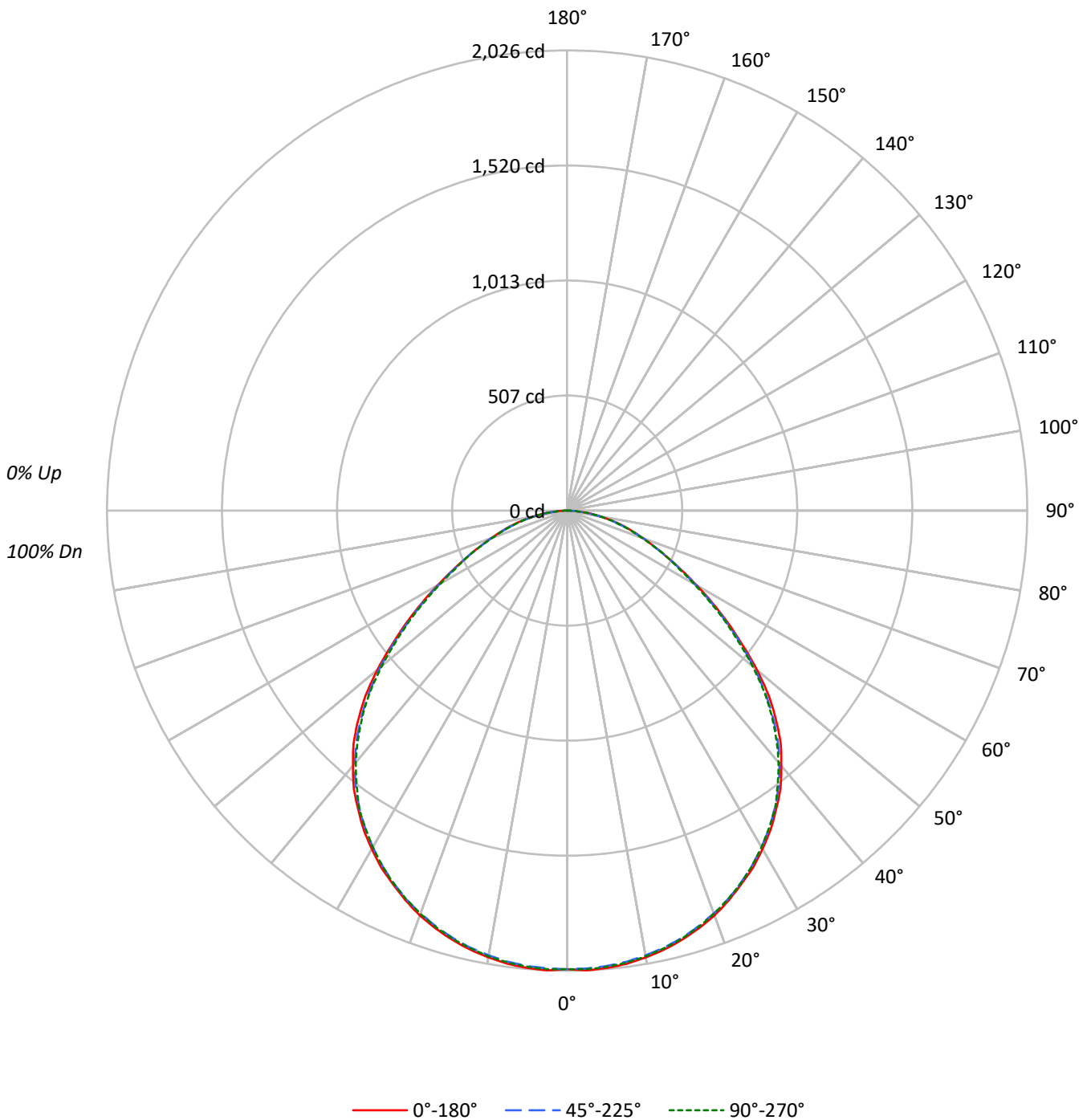
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5143.0 lumens  
Efficiency: N/A  
Efficacy: 125.4 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): 41  
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	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	92	90	91	89	87	85																												
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72																												
3	92	82	74	68	89	80	73	67	77	71	66	75	70	65	72	68	64	62																												
4	84	73	65	58	82	72	64	58	69	62	57	67	61	56	65	60	56	53																												
5	78	66	57	51	76	64	56	50	62	55	50	60	54	49	59	53	49	47																												
6	72	59	51	44	70	58	50	44	57	49	44	55	48	43	53	48	43	41																												
7	67	54	45	39	65	53	45	39	52	44	39	50	44	39	49	43	38	36																												
8	62	49	41	35	61	49	41	35	47	40	35	46	40	35	45	39	35	33																												
9	58	45	37	32	57	45	37	32	44	37	32	42	36	31	41	36	31	29																												
10	55	42	34	29	53	41	34	29	40	33	29	39	33	29	38	33	28	27																												

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

	0°	45°	90°
0°	2896	2896	2896
5°	2909	2897	2902
10°	2908	2894	2901
15°	2904	2891	2896
20°	2895	2880	2883
25°	2871	2862	2864
30°	2849	2833	2833
35°	2810	2793	2796
40°	2746	2722	2711
45°	2636	2594	2580
50°	2433	2398	2376
55°	2166	2135	2121
60°	1888	1867	1848
65°	1655	1656	1647
70°	1489	1485	1463
75°	1387	1346	1350
80°	1239	1215	1215
85°	956	984	946



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	191.5	3.7
10°-20°	550.1	10.7
20°-30°	834.0	16.2
30°-40°	997.4	19.4
40°-50°	984.8	19.1
50°-60°	766.6	14.9
60°-70°	486.6	9.5
70°-80°	261.1	5.1
80°-90°	70.8	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°	1575.6	30.6
0°-40°	2573.0	50.0
0°-60°	4324.4	84.1
0°-90°	5143.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5143.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2019	2019	2019	2019	2019	
5°	2021	2015	2013	2012	2016	192
15°	1956	1950	1948	1946	1951	552
25°	1815	1811	1809	1806	1810	837
35°	1605	1602	1596	1590	1597	1004
45°	1300	1291	1279	1273	1272	998
55°	866	862	854	848	848	776
65°	488	489	488	482	485	489
75°	250	246	243	242	244	265
85°	58	59	60	60	58	72
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2019.4	2019.4	2019.4	2019.4	2019.4
2.5°	2026.2	2019.4	2017.2	2016.1	2021.1
5°	2021.1	2014.9	2012.7	2011.5	2016.1
7.5°	2012.7	2005.3	2003.1	2002.0	2007.0
10°	1997.5	1990.7	1987.9	1987.9	1992.4
12.5°	1979.4	1973.8	1971.0	1968.7	1973.8
15°	1956.3	1949.5	1947.8	1945.6	1951.2
17.5°	1928.7	1921.9	1919.7	1918.5	1922.5
20°	1897.1	1888.6	1887.5	1887.0	1889.2
22.5°	1858.2	1853.7	1851.4	1850.3	1852.0
25°	1814.8	1811.4	1809.2	1805.8	1810.3
27.5°	1772.5	1768.0	1762.4	1759.5	1762.4
30°	1720.6	1715.0	1711.1	1709.9	1711.1
32.5°	1667.1	1661.4	1656.4	1655.8	1655.2
35°	1605.1	1601.7	1595.5	1590.4	1597.2
37.5°	1543.6	1535.7	1530.1	1523.9	1522.2
40°	1466.9	1464.1	1454.5	1448.9	1448.3
42.5°	1392.5	1379.6	1372.8	1368.8	1362.6
45°	1300.1	1291.0	1279.2	1273.0	1272.4
47.5°	1203.7	1192.4	1181.1	1172.7	1174.9
50°	1090.9	1085.8	1075.1	1067.8	1065.0
52.5°	974.8	973.6	962.4	957.9	952.8
55°	866.5	862.0	854.1	848.5	848.5
57.5°	760.0	756.0	752.1	741.4	741.4
60°	658.5	657.9	651.2	645.0	644.4
62.5°	567.7	571.1	564.9	558.7	555.3
65°	487.7	489.4	488.2	482.0	485.4
67.5°	417.2	417.8	415.5	412.1	414.4
70°	355.2	358.0	354.1	351.8	349.0
72.5°	301.1	299.9	296.5	298.2	294.3
75°	250.3	246.4	243.0	242.4	243.6
77.5°	199.6	198.4	195.6	195.6	193.9
80°	150.0	148.8	147.1	147.7	147.1
82.5°	106.6	103.7	101.5	102.6	103.2
85°	58.1	59.2	59.8	59.8	57.5
87.5°	23.7	23.1	23.7	24.8	25.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)