

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: P738568

Luminaire Tested: **24PT-50-PL1-L835**

Issue Date: 2/8/2024



Test Information

Test Method: LM-79-08
Report Number: P738568
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-50-PL1-L835
Description: 5000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3500K, 80 CRI LEDS AND LEAVES LENS

Light Source: -
Ballast/Driver: -

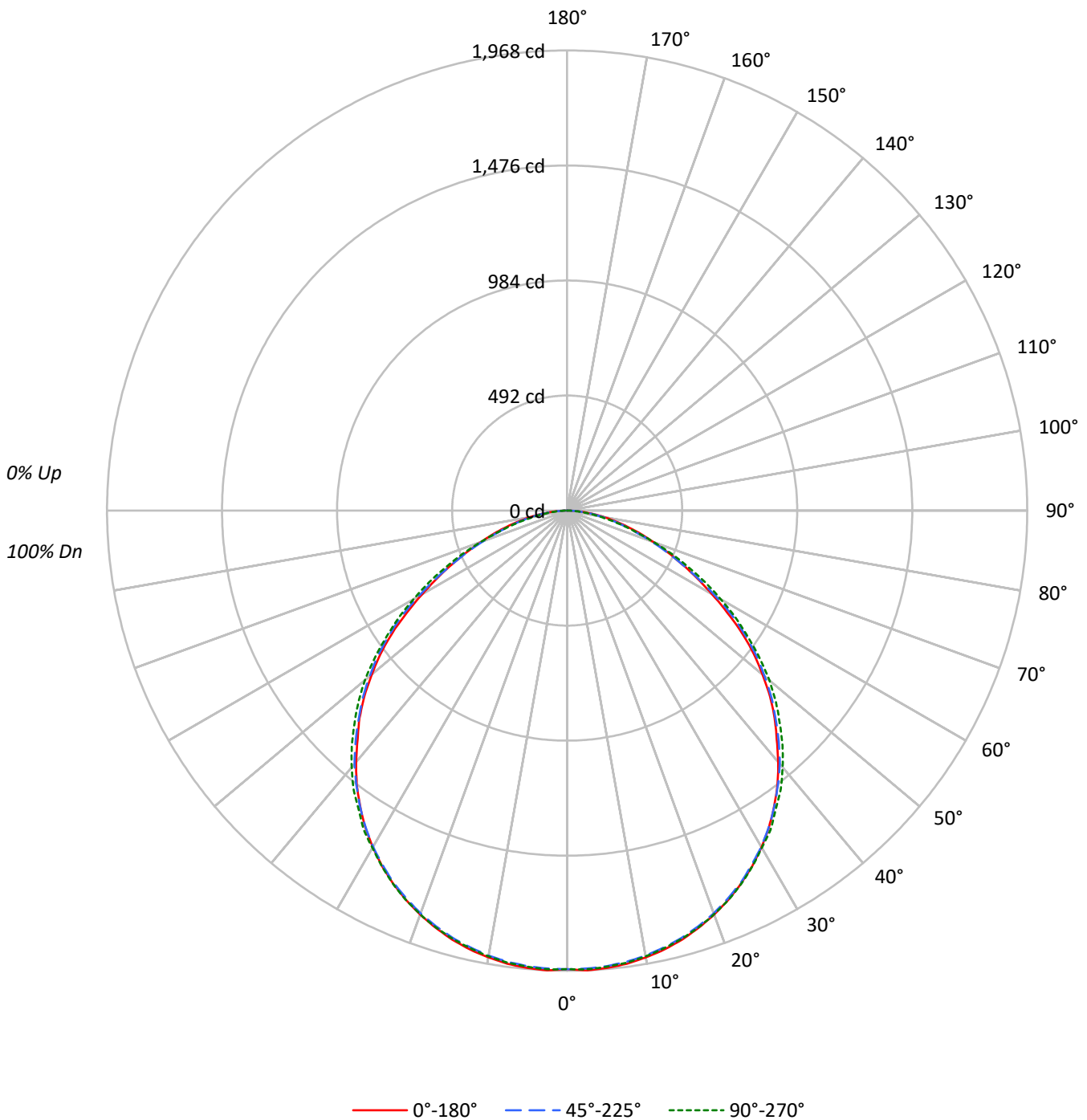
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5192.0 lumens
Efficiency: N/A
Efficacy: 126.6 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_{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

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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°	2813	2813	2813
5°	2827	2814	2818
10°	2825	2813	2818
15°	2820	2808	2814
20°	2805	2797	2804
25°	2785	2779	2787
30°	2752	2748	2758
35°	2702	2703	2724
40°	2628	2648	2684
45°	2546	2558	2608
50°	2432	2460	2519
55°	2283	2326	2361
60°	2050	2100	2178
65°	1834	1838	1938
70°	1636	1591	1648
75°	1478	1390	1365
80°	1313	1225	1080
85°	1076	1020	844



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.1	3.6
10°-20°	534.2	10.3
20°-30°	809.4	15.6
30°-40°	967.3	18.6
40°-50°	975.7	18.8
50°-60°	827.8	15.9
60°-70°	547.7	10.5
70°-80°	271.8	5.2
80°-90°	71.9	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°	1529.7	29.5
0°-40°	2497.0	48.1
0°-60°	4300.6	82.8
0°-90°	5192.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5192.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1962	1962	1962	1962	1962	
5°	1964	1957	1955	1954	1958	187
15°	1900	1893	1892	1892	1896	536
25°	1760	1756	1756	1756	1762	811
35°	1544	1542	1544	1553	1556	964
45°	1256	1254	1261	1278	1286	966
55°	913	916	930	939	944	812
65°	541	540	542	559	571	540
75°	267	259	251	243	246	285
85°	65	65	62	57	51	78
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1961.5	1961.5	1961.5	1961.5	1961.5
2.5°	1968.3	1962.1	1960.4	1959.3	1963.8
5°	1963.8	1957.0	1955.3	1954.2	1958.1
7.5°	1954.8	1947.4	1946.3	1945.2	1950.2
10°	1940.1	1933.3	1932.2	1931.1	1935.6
12.5°	1922.6	1915.8	1913.6	1914.2	1917.0
15°	1899.5	1893.3	1891.6	1891.6	1895.5
17.5°	1870.7	1865.1	1864.0	1863.4	1868.5
20°	1838.6	1833.0	1833.0	1834.7	1837.5
22.5°	1802.0	1798.0	1795.8	1796.9	1802.5
25°	1760.2	1756.3	1756.3	1755.7	1761.9
27.5°	1714.0	1708.9	1708.9	1713.4	1715.7
30°	1662.1	1657.6	1659.9	1663.3	1665.5
32.5°	1606.3	1603.5	1605.2	1610.3	1619.3
35°	1543.7	1541.5	1544.3	1552.7	1556.1
37.5°	1478.3	1476.6	1480.6	1491.9	1501.4
40°	1403.9	1403.9	1414.6	1424.8	1433.8
42.5°	1326.7	1331.7	1339.6	1355.4	1363.3
45°	1255.6	1253.9	1261.3	1278.2	1286.1
47.5°	1176.7	1175.0	1185.7	1197.5	1210.5
50°	1090.4	1089.9	1102.8	1113.0	1129.3
52.5°	1006.4	1011.5	1019.9	1029.0	1038.5
55°	913.4	915.6	930.3	938.8	944.4
57.5°	813.0	820.4	838.4	850.8	855.9
60°	714.9	719.4	732.4	754.4	759.5
62.5°	625.8	627.5	635.4	660.2	667.0
65°	540.7	539.6	541.8	558.7	571.1
67.5°	463.5	458.9	458.9	468.0	483.2
70°	390.2	383.4	379.4	382.3	393.0
72.5°	328.7	319.7	309.5	307.8	314.6
75°	266.7	259.4	250.9	243.0	246.4
77.5°	212.6	206.4	198.5	189.4	184.9
80°	159.0	156.7	148.3	139.8	130.8
82.5°	111.1	109.4	103.7	97.0	91.3
85°	65.4	65.4	62.0	56.9	51.3
87.5°	29.3	28.2	29.3	24.8	23.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)