

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: P738567

Luminaire Tested: **24PT-50-PL1-L830**

Issue Date: 2/8/2024



Test Information

Test Method: LM-79-08
Report Number: P738567
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-L830
Description: 5000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3000K, 80 CRI LEDS AND LEAVES LENS

Light Source: -
Ballast/Driver: -

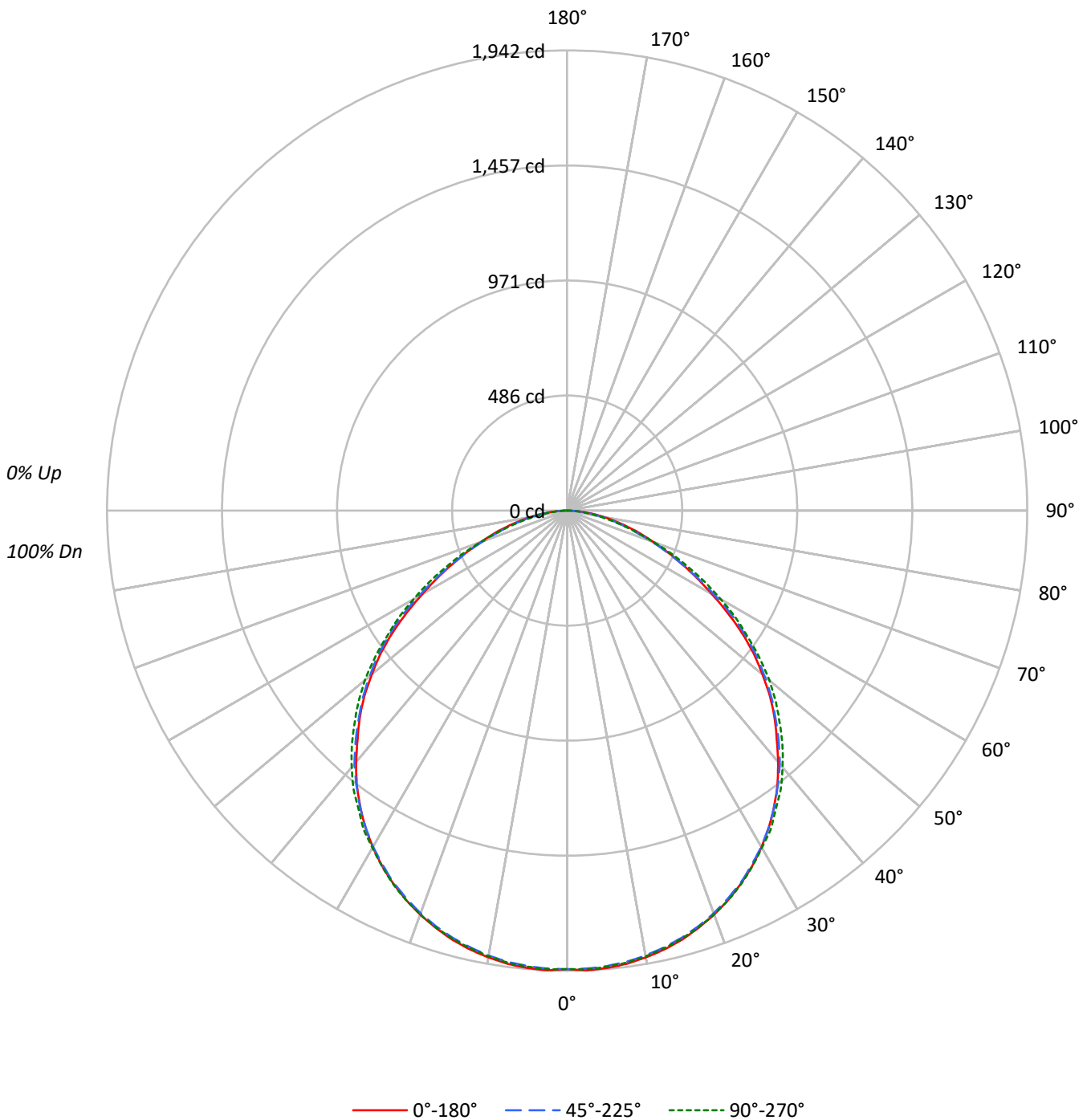
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5123.0 lumens
Efficiency: N/A
Efficacy: 125.0 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	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					100			
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85					85			
2	100	92	86	80	97	90	84	79	87	82	77	83	79	76	80	77	74	72					72			
3	91	81	73	67	89	80	72	67	77	70	65	74	69	64	71	67	63	61					61			
4	84	72	64	57	82	71	63	57	68	62	56	66	60	55	64	59	55	52					52			
5	77	65	56	49	75	64	55	49	61	54	49	60	53	48	58	52	48	46					46			
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	47	42	40					40			
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	37	35					35			
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	32					32			
9	58	44	36	31	56	44	36	31	43	36	31	42	35	30	41	35	30	29					29			
10	54	41	33	28	53	40	33	28	40	33	28	39	32	28	38	32	28	26					26			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2775	2775	2775
5°	2789	2777	2781
10°	2787	2776	2781
15°	2782	2771	2777
20°	2768	2760	2767
25°	2748	2742	2750
30°	2715	2712	2721
35°	2666	2667	2688
40°	2593	2613	2648
45°	2512	2524	2573
50°	2400	2427	2486
55°	2253	2295	2329
60°	2023	2073	2149
65°	1810	1814	1912
70°	1614	1570	1626
75°	1458	1372	1347
80°	1296	1208	1066
85°	1061	1007	832



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.6	3.6
10°-20°	527.1	10.3
20°-30°	798.6	15.6
30°-40°	954.4	18.6
40°-50°	962.8	18.8
50°-60°	816.8	15.9
60°-70°	540.5	10.5
70°-80°	268.2	5.2
80°-90°	71.0	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°	1509.4	29.5
0°-40°	2463.8	48.1
0°-60°	4243.4	82.8
0°-90°	5123.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5123.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1935	1935	1935	1935	1935	
5°	1938	1931	1929	1928	1932	184
15°	1874	1868	1866	1866	1870	529
25°	1737	1733	1733	1732	1738	800
35°	1523	1521	1524	1532	1536	952
45°	1239	1237	1244	1261	1269	953
55°	901	904	918	926	932	801
65°	534	532	535	551	564	532
75°	263	256	248	240	243	282
85°	64	64	61	56	51	77
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1935.4	1935.4	1935.4	1935.4	1935.4
2.5°	1942.1	1936.0	1934.3	1933.2	1937.7
5°	1937.7	1931.0	1929.3	1928.2	1932.1
7.5°	1928.8	1921.5	1920.4	1919.3	1924.3
10°	1914.3	1907.6	1906.5	1905.4	1909.9
12.5°	1897.1	1890.4	1888.2	1888.7	1891.5
15°	1874.3	1868.1	1866.5	1866.5	1870.4
17.5°	1845.9	1840.3	1839.2	1838.6	1843.7
20°	1814.2	1808.6	1808.6	1810.3	1813.1
22.5°	1778.0	1774.1	1771.9	1773.0	1778.6
25°	1736.8	1732.9	1732.9	1732.4	1738.5
27.5°	1691.2	1686.2	1686.2	1690.7	1692.9
30°	1640.0	1635.6	1637.8	1641.2	1643.4
32.5°	1585.0	1582.2	1583.9	1588.9	1597.8
35°	1523.2	1521.0	1523.8	1532.1	1535.5
37.5°	1458.7	1457.0	1460.9	1472.0	1481.5
40°	1385.2	1385.2	1395.8	1405.8	1414.7
42.5°	1309.0	1314.0	1321.8	1337.4	1345.2
45°	1238.9	1237.3	1244.5	1261.2	1269.0
47.5°	1161.0	1159.4	1169.9	1181.6	1194.4
50°	1075.9	1075.4	1088.2	1098.2	1114.3
52.5°	993.0	998.0	1006.4	1015.3	1024.7
55°	901.2	903.5	917.9	926.3	931.8
57.5°	802.2	809.5	827.3	839.5	844.5
60°	705.4	709.9	722.7	744.4	749.4
62.5°	617.5	619.2	627.0	651.5	658.1
65°	533.5	532.4	534.6	551.3	563.6
67.5°	457.3	452.8	452.8	461.7	476.8
70°	385.0	378.3	374.4	377.2	387.8
72.5°	324.3	315.4	305.4	303.8	310.4
75°	263.1	255.9	247.6	239.8	243.1
77.5°	209.7	203.6	195.8	186.9	182.5
80°	156.9	154.7	146.3	138.0	129.1
82.5°	109.6	107.9	102.4	95.7	90.1
85°	64.5	64.5	61.2	56.2	50.6
87.5°	28.9	27.8	28.9	24.5	22.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)