

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: P738585

Luminaire Tested: **24PT-50-PW1-L840**

Issue Date: 2/8/2024



Test Information

Test Method: LM-79-08
Report Number: P738585
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-50-PW1-L840
Description: 5000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 4000K, 80 CRI LEDS AND WAVES LENS

Light Source: -
Ballast/Driver: -

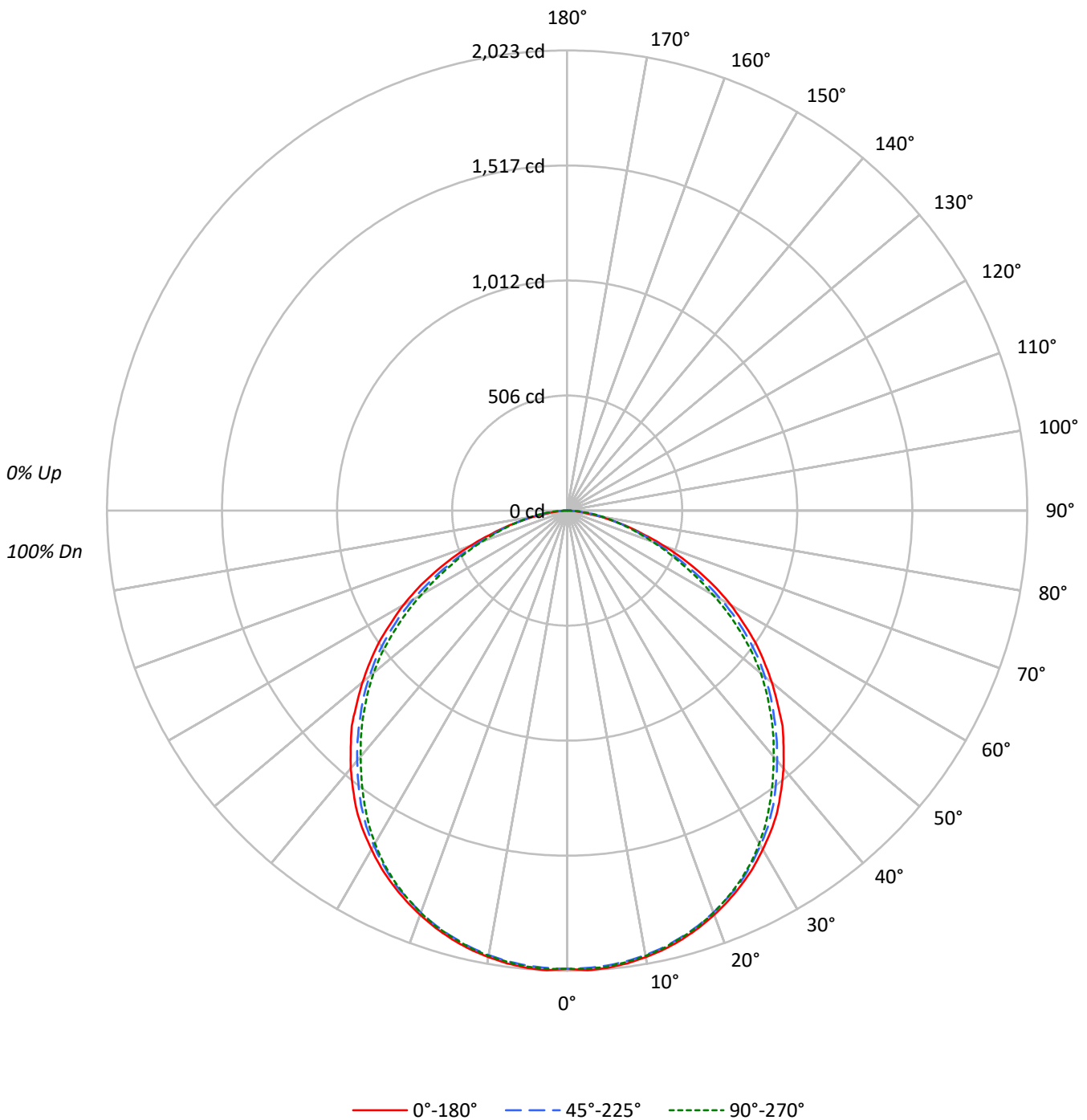
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5372.0 lumens
Efficiency: N/A
Efficacy: 131.0 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): 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	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°	2889	2889	2889
5°	2905	2891	2897
10°	2903	2889	2894
15°	2897	2882	2885
20°	2886	2869	2871
25°	2870	2854	2843
30°	2848	2815	2798
35°	2822	2765	2726
40°	2770	2688	2644
45°	2715	2610	2568
50°	2619	2531	2478
55°	2523	2416	2328
60°	2385	2238	2123
65°	2184	1994	1891
70°	1892	1729	1665
75°	1549	1491	1471
80°	1130	1275	1313
85°	757	1064	1130



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.1	3.6
10°-20°	548.5	10.2
20°-30°	830.2	15.5
30°-40°	987.8	18.4
40°-50°	997.8	18.6
50°-60°	863.4	16.1
60°-70°	589.8	11.0
70°-80°	290.6	5.4
80°-90°	72.6	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°	1569.8	29.2
0°-40°	2557.7	47.6
0°-60°	4418.9	82.3
0°-90°	5372.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5372.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2015	2015	2015	2015	2015	
5°	2018	2011	2008	2007	2012	192
15°	1952	1945	1941	1940	1944	551
25°	1814	1807	1804	1797	1797	836
35°	1612	1599	1580	1562	1558	1006
45°	1339	1316	1287	1273	1266	1028
55°	1009	995	966	946	931	899
65°	644	619	588	568	557	636
75°	280	271	269	267	266	299
85°	46	57	65	67	69	59
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2014.7	2014.7	2014.7	2014.7	2014.7
2.5°	2022.9	2015.3	2013.0	2011.2	2016.5
5°	2018.2	2010.6	2008.3	2006.6	2012.4
7.5°	2008.3	2000.7	1998.4	1996.7	2001.3
10°	1993.7	1986.7	1984.4	1982.7	1987.9
12.5°	1975.1	1968.7	1965.8	1963.5	1969.3
15°	1951.8	1945.4	1941.3	1940.2	1943.6
17.5°	1923.8	1917.4	1914.5	1912.8	1916.9
20°	1891.2	1884.2	1880.2	1877.8	1881.3
22.5°	1855.1	1848.1	1842.9	1840.6	1841.7
25°	1814.3	1807.4	1803.9	1796.9	1796.9
27.5°	1770.7	1762.5	1753.8	1746.2	1746.8
30°	1720.0	1710.7	1700.2	1690.3	1689.7
32.5°	1668.7	1657.1	1644.3	1630.9	1626.8
35°	1612.2	1598.8	1579.6	1562.1	1557.5
37.5°	1545.8	1533.6	1508.0	1493.4	1485.8
40°	1480.0	1462.5	1436.3	1419.4	1412.5
42.5°	1407.8	1390.9	1362.9	1347.2	1341.4
45°	1339.1	1316.3	1287.2	1272.7	1266.3
47.5°	1253.4	1234.8	1214.4	1197.5	1189.4
50°	1174.2	1159.1	1134.6	1116.0	1110.7
52.5°	1091.5	1078.7	1055.4	1030.9	1025.1
55°	1009.4	995.4	966.3	945.9	931.3
57.5°	916.8	904.6	877.2	851.0	838.2
60°	831.7	810.8	780.5	751.9	740.3
62.5°	739.1	718.7	683.8	654.7	648.3
65°	643.6	619.1	587.7	568.5	557.4
67.5°	546.9	523.0	496.8	484.6	477.6
70°	451.4	432.2	412.4	403.6	397.2
72.5°	359.4	348.3	337.2	333.7	327.9
75°	279.6	271.4	269.1	267.3	265.6
77.5°	201.5	205.6	207.9	210.3	207.9
80°	136.9	145.6	154.4	159.0	159.0
82.5°	84.5	99.6	107.2	111.8	111.2
85°	46.0	57.1	64.7	67.0	68.7
87.5°	18.6	23.3	26.2	28.5	29.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)