

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: P738577

Luminaire Tested: **24PT-50-PR1-L840**

Issue Date: 2/8/2024



Test Information

Test Method: LM-79-08
Report Number: P738577
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-L840
Description: 5000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 4000K, 80 CRI LEDS AND RIPLE LENS

Light Source: -
Ballast/Driver: -

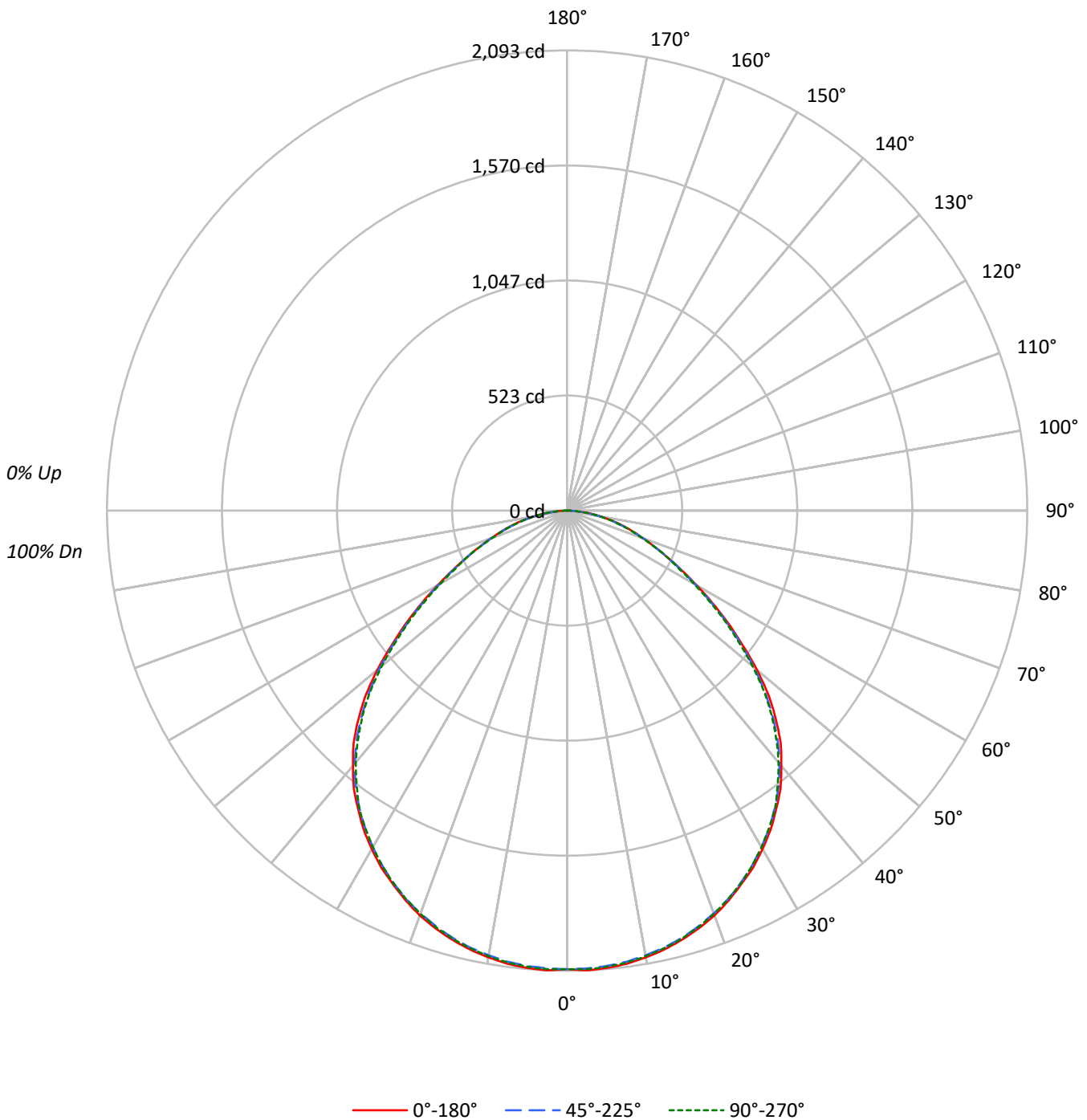
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5313.0 lumens
Efficiency: N/A
Efficacy: 129.6 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	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°	2991	2991	2991
5°	3005	2993	2998
10°	3004	2990	2997
15°	3000	2987	2992
20°	2990	2975	2978
25°	2966	2957	2959
30°	2943	2927	2927
35°	2902	2885	2888
40°	2836	2813	2801
45°	2723	2680	2666
50°	2514	2478	2454
55°	2238	2206	2191
60°	1951	1929	1909
65°	1709	1711	1701
70°	1538	1534	1511
75°	1433	1391	1394
80°	1279	1255	1255
85°	987	1015	977



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	197.9	3.7
10°-20°	568.3	10.7
20°-30°	861.5	16.2
30°-40°	1030.4	19.4
40°-50°	1017.4	19.1
50°-60°	791.9	14.9
60°-70°	502.7	9.5
70°-80°	269.8	5.1
80°-90°	73.2	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°	1627.7	30.6
0°-40°	2658.1	50.0
0°-60°	4467.4	84.1
0°-90°	5313.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5313.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2086	2086	2086	2086	2086	
5°	2088	2082	2079	2078	2083	199
15°	2021	2014	2012	2010	2016	570
25°	1875	1871	1869	1866	1870	865
35°	1658	1655	1648	1643	1650	1037
45°	1343	1334	1322	1315	1314	1031
55°	895	890	882	876	876	802
65°	504	506	504	498	502	505
75°	259	254	251	250	252	273
85°	60	61	62	62	59	74
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2086.2	2086.2	2086.2	2086.2	2086.2
2.5°	2093.2	2086.2	2083.9	2082.7	2087.9
5°	2087.9	2081.5	2079.2	2078.0	2082.7
7.5°	2079.2	2071.6	2069.3	2068.1	2073.4
10°	2063.5	2056.5	2053.6	2053.6	2058.2
12.5°	2044.8	2039.0	2036.1	2033.8	2039.0
15°	2021.0	2014.0	2012.2	2009.9	2015.7
17.5°	1992.4	1985.4	1983.1	1981.9	1986.0
20°	1959.8	1951.1	1949.9	1949.3	1951.7
22.5°	1919.6	1915.0	1912.6	1911.5	1913.2
25°	1874.8	1871.3	1869.0	1865.5	1870.1
27.5°	1831.1	1826.4	1820.6	1817.7	1820.6
30°	1777.5	1771.7	1767.6	1766.5	1767.6
32.5°	1722.2	1716.4	1711.1	1710.5	1710.0
35°	1658.1	1654.6	1648.2	1643.0	1650.0
37.5°	1594.6	1586.5	1580.7	1574.3	1572.5
40°	1515.4	1512.5	1502.6	1496.8	1496.2
42.5°	1438.6	1425.2	1418.2	1414.1	1407.7
45°	1343.0	1333.7	1321.5	1315.1	1314.5
47.5°	1243.4	1231.8	1220.1	1211.4	1213.7
50°	1127.0	1121.7	1110.7	1103.1	1100.2
52.5°	1007.0	1005.8	994.2	989.5	984.3
55°	895.2	890.5	882.4	876.5	876.5
57.5°	785.1	781.0	776.9	765.9	765.9
60°	680.3	679.7	672.7	666.3	665.7
62.5°	586.5	590.0	583.6	577.2	573.7
65°	503.8	505.5	504.4	498.0	501.5
67.5°	431.0	431.6	429.2	425.7	428.1
70°	366.9	369.8	365.8	363.4	360.5
72.5°	311.0	309.8	306.3	308.1	304.0
75°	258.6	254.5	251.0	250.4	251.6
77.5°	206.2	205.0	202.1	202.1	200.3
80°	154.9	153.8	152.0	152.6	152.0
82.5°	110.1	107.2	104.8	106.0	106.6
85°	60.0	61.2	61.7	61.7	59.4
87.5°	24.5	23.9	24.5	25.6	26.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)