

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: P737873

Luminaire Tested: **14PT-50-PR1-L840**

Issue Date: 2/8/2024



Test Information

Test Method: LM-79-08
Report Number: P737873
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2211-846-11)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/8/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 14PT-50-PR1-L840
Description: 5000 LUMEN 1X4 PERCEIVE PT TROFFER WITH 4000K, 80 CRI LEDS AND RIPLE LENS

Light Source: -
Ballast/Driver: -

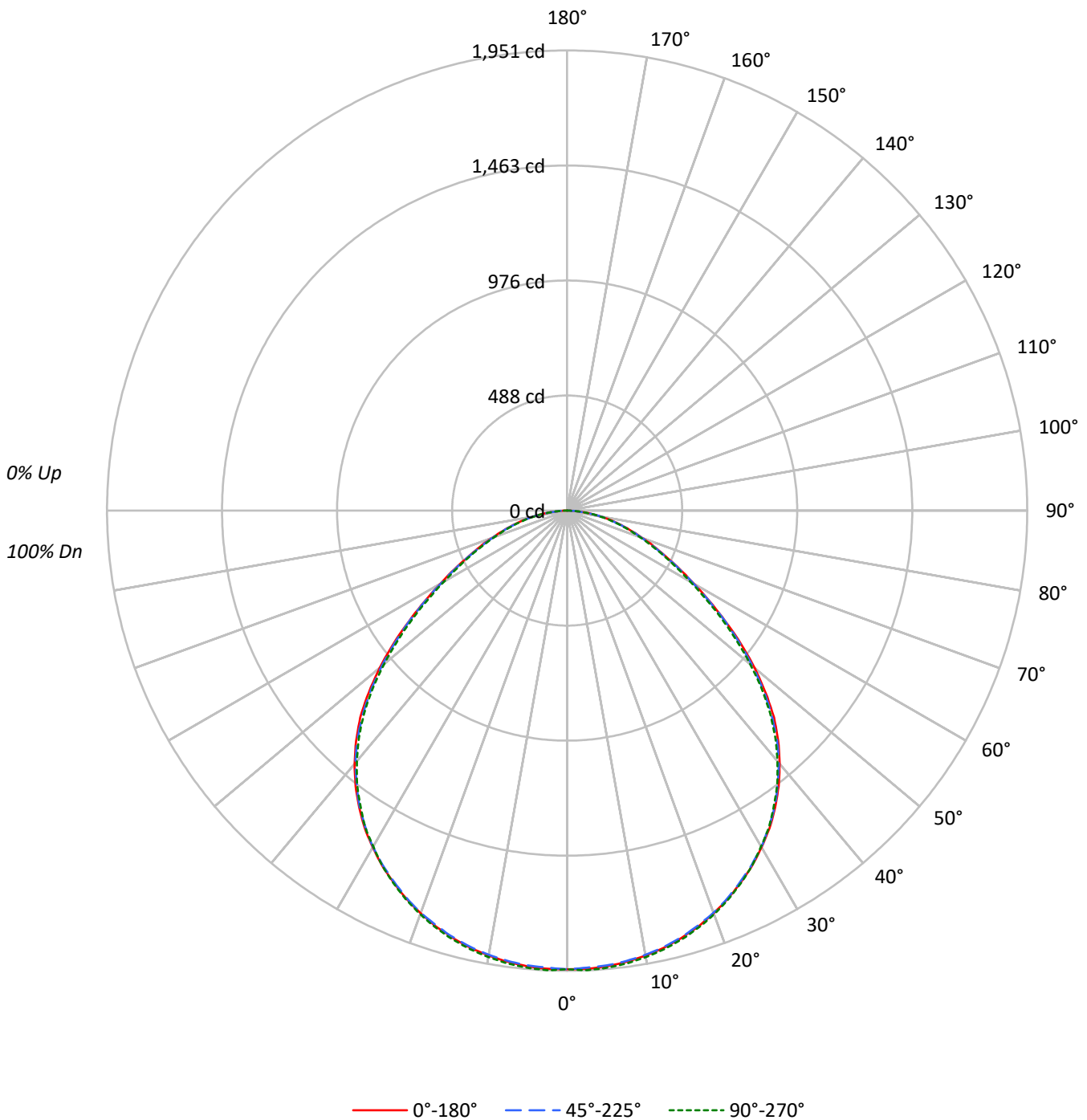
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4919.0 lumens
Efficiency: N/A
Efficacy: 120.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.34
Luminous Opening: Rectangular (W 0.92' x L: 3.92' x H: 0')
CIE Type: Direct

Input Watts (W): 40.9
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	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	88				85	
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75				73	
3	92	82	74	68	90	80	73	68	78	71	66	75	70	65	72	68	64				62	
4	85	73	65	58	82	72	64	58	69	63	57	67	61	56	65	60	56				54	
5	78	66	57	51	76	65	56	50	62	55	50	61	54	49	59	53	49				47	
6	72	59	51	45	70	58	50	44	57	49	44	55	49	44	53	48	43				41	
7	67	54	45	40	65	53	45	39	52	44	39	50	44	39	49	43	39				37	
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	43	36	32	42	36	31				30	
10	55	42	34	29	54	41	34	29	40	34	29	39	33	29	39	33	29				27	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5831	5831	5831
5°	5837	5824	5856
10°	5832	5822	5853
15°	5821	5812	5840
20°	5796	5790	5812
25°	5759	5745	5766
30°	5708	5701	5693
35°	5629	5616	5593
40°	5487	5465	5427
45°	5258	5199	5161
50°	4839	4783	4725
55°	4281	4264	4179
60°	3721	3708	3607
65°	3279	3259	3195
70°	2976	2933	2873
75°	2753	2689	2641
80°	2516	2479	2395
85°	1992	1968	1895



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.5	3.8
10°-20°	529.6	10.8
20°-30°	802.3	16.3
30°-40°	957.7	19.5
40°-50°	941.9	19.1
50°-60°	727.9	14.8
60°-70°	459.0	9.3
70°-80°	248.2	5.0
80°-90°	67.8	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°	1516.3	30.8
0°-40°	2474.0	50.3
0°-60°	4143.9	84.2
0°-90°	4919.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4919.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1945	1945	1945	1945	1945	
5°	1940	1940	1935	1944	1946	184
15°	1875	1876	1872	1879	1882	529
25°	1741	1742	1737	1742	1743	802
35°	1538	1539	1534	1532	1528	960
45°	1240	1235	1226	1216	1217	950
55°	819	826	816	802	800	735
65°	462	463	459	452	450	465
75°	238	235	232	234	228	253
85°	58	59	57	58	55	69
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1945.0	1945.0	1945.0	1945.0	1945.0
2.5°	1944.3	1945.0	1939.5	1948.5	1950.6
5°	1939.5	1940.2	1935.3	1943.6	1945.7
7.5°	1929.7	1931.1	1926.2	1934.6	1936.7
10°	1915.8	1917.2	1912.3	1920.6	1922.7
12.5°	1898.3	1899.0	1894.8	1902.5	1904.6
15°	1875.3	1876.0	1872.5	1878.8	1881.6
17.5°	1848.8	1849.5	1844.7	1852.3	1853.7
20°	1816.8	1817.5	1814.7	1820.9	1821.6
22.5°	1781.2	1782.6	1778.4	1784.0	1784.7
25°	1740.8	1742.2	1736.6	1742.2	1742.9
27.5°	1698.2	1698.9	1694.1	1698.2	1697.6
30°	1648.8	1652.9	1646.7	1645.3	1644.6
32.5°	1597.2	1597.9	1591.6	1590.2	1593.0
35°	1537.9	1538.6	1534.4	1532.3	1528.1
37.5°	1473.1	1473.1	1465.4	1464.0	1463.3
40°	1402.0	1401.3	1396.4	1391.5	1386.6
42.5°	1324.6	1326.0	1316.2	1307.8	1306.5
45°	1240.2	1235.3	1226.3	1216.5	1217.2
47.5°	1140.5	1141.9	1129.4	1121.7	1119.6
50°	1037.4	1037.4	1025.5	1017.1	1013.0
52.5°	929.3	930.0	918.8	907.7	905.6
55°	819.1	826.1	815.7	802.4	799.6
57.5°	716.0	721.5	711.8	697.8	697.1
60°	620.5	621.2	618.4	605.1	601.6
62.5°	538.9	535.4	534.0	527.0	522.9
65°	462.2	462.9	459.4	451.8	450.4
67.5°	400.2	399.5	393.2	388.3	385.5
70°	339.5	337.4	334.6	330.4	327.7
72.5°	285.1	285.1	283.0	281.6	276.8
75°	237.7	234.9	232.1	233.5	228.0
77.5°	192.4	189.6	187.5	184.7	183.3
80°	145.7	142.9	143.6	139.4	138.7
82.5°	101.1	101.1	99.7	96.2	96.9
85°	57.9	58.6	57.2	57.9	55.1
87.5°	20.9	21.6	23.0	21.6	21.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)