

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: P738194

Luminaire Tested: **22PT-45-PL1-L850**

Issue Date: 2/8/2024



Test Information

Test Method: LM-79-08
Report Number: P738194
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2212-851-10)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/8/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 22PT-45-PL1-L850
Description: 4500 LUMEN 2X2 PERCEIVE PT TROFFER WITH 5000K, 80 CRI LEDS AND LEAVES LENS

Light Source: -
Ballast/Driver: -

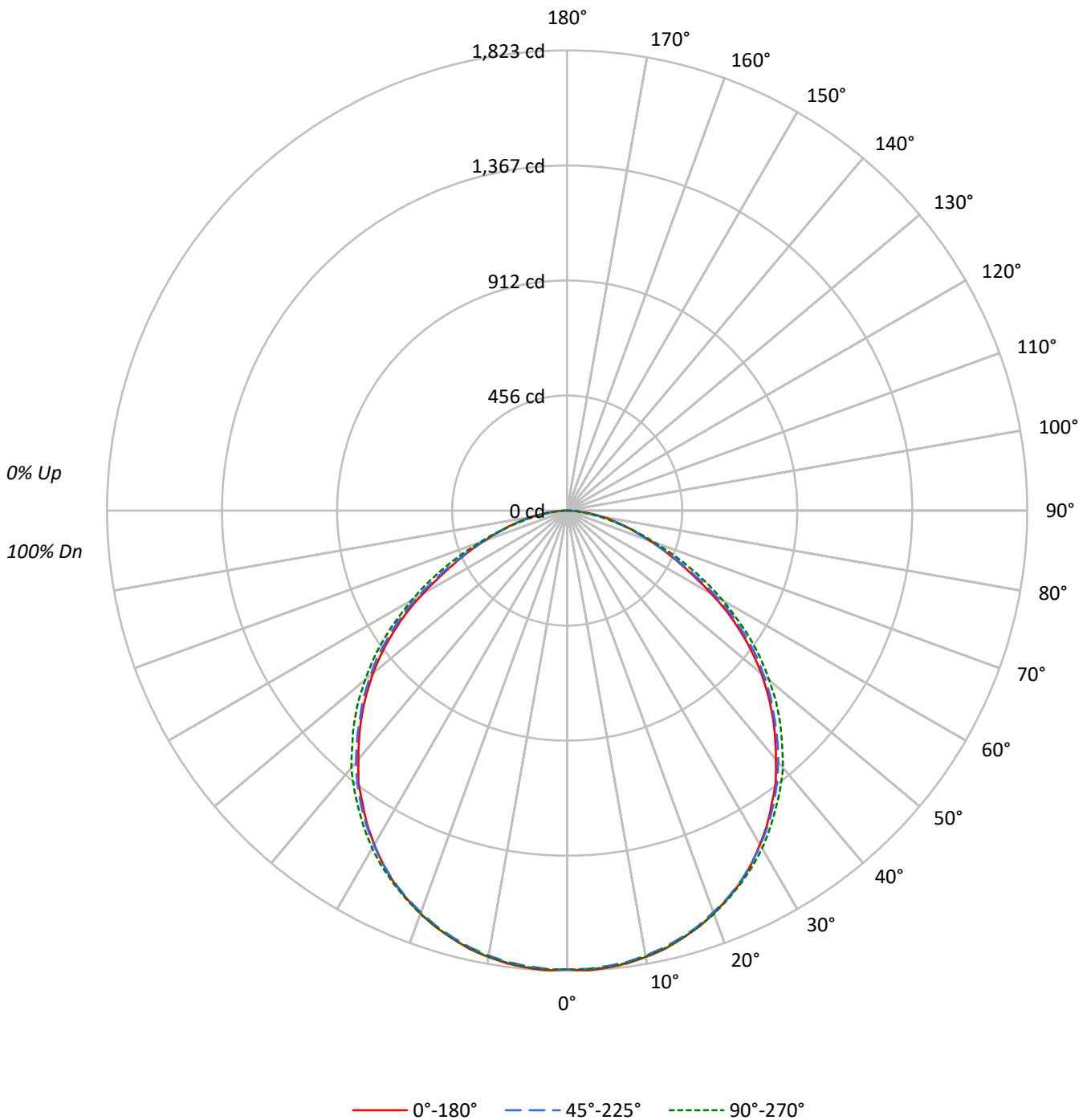
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4790.0 lumens
Efficiency: N/A
Efficacy: 135.7 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.26 / 1.35
Luminous Opening: Rectangular (W 1.92' x L: 1.92' x H: 0')
CIE Type: Direct

Input Watts (W): 35.3
Input Voltage (V): NR
Input Current (Ain): 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	71	65	74	69	64	72	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	50	75	64	55	49	62	54	49	60	53	48	58	52	48	46
6	71	58	50	43	70	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	31	41	35	30	29
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5327	5327	5327
5°	5347	5327	5340
10°	5343	5325	5339
15°	5325	5308	5327
20°	5297	5280	5301
25°	5255	5245	5267
30°	5168	5178	5227
35°	5059	5094	5154
40°	4921	4976	5088
45°	4770	4811	4947
50°	4581	4637	4763
55°	4302	4388	4525
60°	3868	3998	4168
65°	3388	3458	3718
70°	2974	2949	3139
75°	2675	2563	2572
80°	2401	2271	2027
85°	1903	1876	1543



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.4	3.6
10°-20°	494.5	10.3
20°-30°	747.8	15.6
30°-40°	891.6	18.6
40°-50°	900.3	18.8
50°-60°	768.0	16.0
60°-70°	504.7	10.5
70°-80°	247.1	5.2
80°-90°	63.7	1.3
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°	1414.7	29.5
0°-40°	2306.3	48.1
0°-60°	3974.6	83.0
0°-90°	4790.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4790.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1818	1818	1818	1818	1818	
5°	1818	1814	1811	1811	1816	173
15°	1755	1752	1750	1751	1756	496
25°	1625	1622	1622	1624	1629	748
35°	1414	1418	1424	1434	1441	885
45°	1151	1154	1161	1184	1194	887
55°	842	847	859	879	886	750
65°	489	489	499	522	536	489
75°	236	234	226	225	227	253
85°	57	57	56	51	46	68
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1818.0	1818.0	1818.0	1818.0	1818.0
2.5°	1823.4	1819.6	1817.3	1815.7	1819.6
5°	1818.0	1814.2	1811.1	1811.1	1815.7
7.5°	1809.6	1805.8	1803.5	1802.7	1807.3
10°	1795.8	1791.3	1789.7	1789.0	1794.3
12.5°	1779.8	1772.9	1772.9	1772.1	1777.5
15°	1755.3	1752.3	1750.0	1750.7	1756.1
17.5°	1730.1	1727.0	1725.5	1725.5	1728.5
20°	1698.7	1694.9	1693.4	1694.9	1700.2
22.5°	1662.8	1660.5	1660.5	1662.0	1665.8
25°	1625.3	1621.5	1622.2	1624.5	1629.1
27.5°	1579.4	1578.6	1578.6	1584.0	1589.3
30°	1527.4	1527.4	1530.4	1538.1	1545.0
32.5°	1474.6	1473.9	1480.0	1486.9	1494.5
35°	1414.2	1418.0	1424.1	1434.1	1441.0
37.5°	1357.6	1356.8	1364.5	1382.1	1386.7
40°	1286.5	1291.8	1301.0	1318.6	1330.1
42.5°	1219.9	1223.7	1232.2	1252.8	1260.5
45°	1151.1	1154.1	1161.0	1184.0	1193.9
47.5°	1078.4	1082.3	1092.2	1111.3	1122.8
50°	1005.0	1010.4	1017.2	1035.6	1044.8
52.5°	924.7	931.6	943.8	960.6	967.5
55°	842.1	846.7	858.9	878.8	885.7
57.5°	755.7	759.5	777.1	791.6	797.0
60°	660.1	664.6	682.2	705.2	711.3
62.5°	569.8	573.6	588.9	616.5	625.6
65°	488.7	488.7	498.7	521.6	536.2
67.5°	416.8	415.3	416.8	434.4	449.7
70°	347.2	348.0	344.2	354.9	366.4
72.5°	289.9	289.9	282.2	283.8	292.9
75°	236.3	234.0	226.4	224.9	227.2
77.5°	188.9	185.1	179.0	174.4	169.0
80°	142.3	139.2	134.6	127.7	120.1
82.5°	99.4	96.4	93.3	89.5	81.8
85°	56.6	56.6	55.8	51.2	45.9
87.5°	22.9	22.2	21.4	20.7	19.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)