

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: P738191

Luminaire Tested: **22PT-45-PL1-L830**

Issue Date: 2/8/2024



Test Information

Test Method: LM-79-08
Report Number: P738191
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-L830
Description: 4500 LUMEN 2X2 PERCEIVE PT TROFFER WITH 3000K, 80 CRI LEDS AND LEAVES LENS

Light Source: -
Ballast/Driver: -

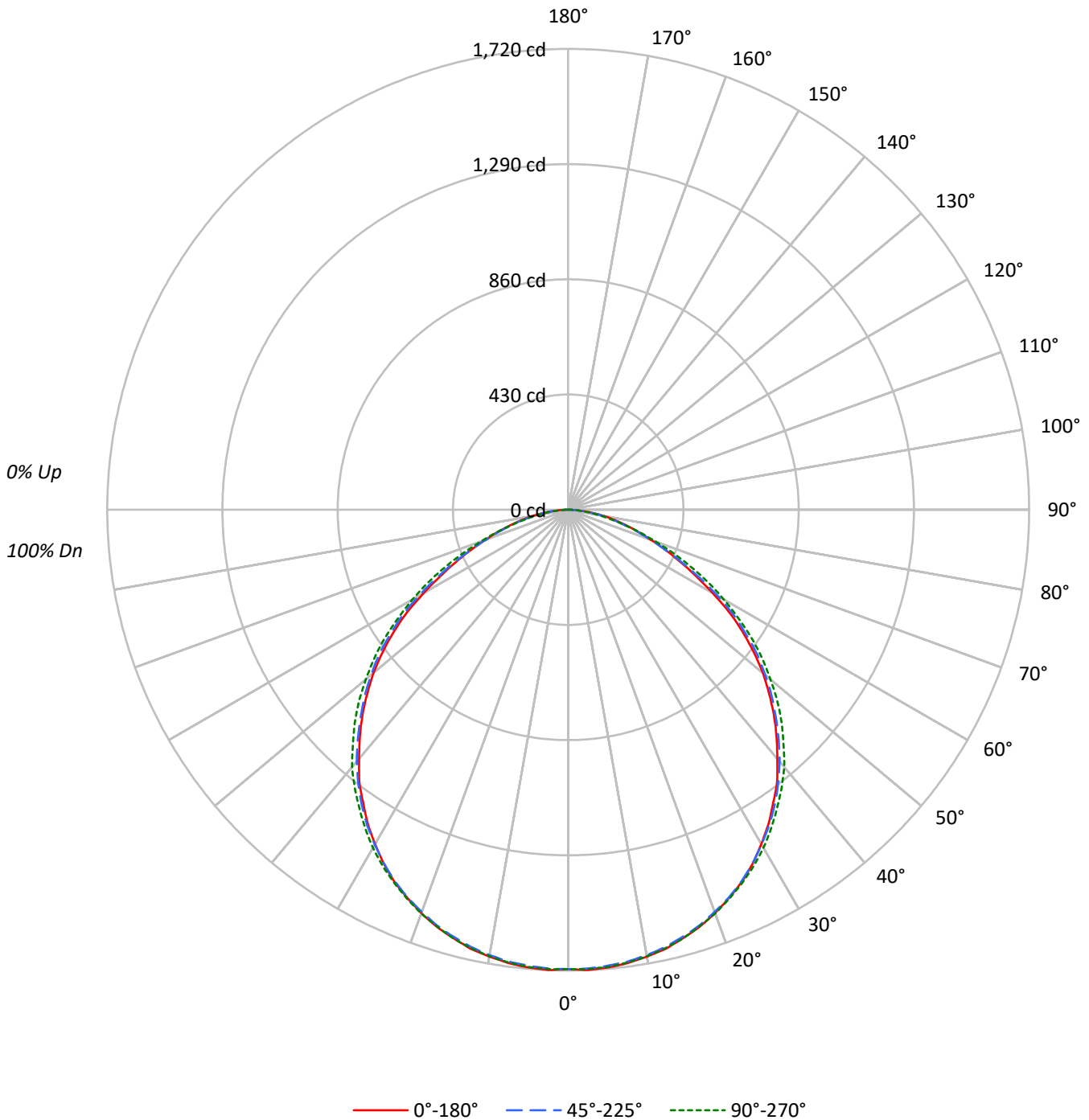
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4518.0 lumens
Efficiency: N/A
Efficacy: 128.0 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 (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	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°	5024	5024	5024
5°	5044	5025	5037
10°	5040	5023	5035
15°	5022	5007	5025
20°	4996	4980	5001
25°	4956	4947	4968
30°	4874	4884	4930
35°	4771	4805	4861
40°	4641	4694	4798
45°	4499	4538	4666
50°	4321	4374	4492
55°	4058	4138	4268
60°	3649	3771	3932
65°	3196	3261	3506
70°	2806	2781	2961
75°	2523	2417	2426
80°	2264	2143	1912
85°	1795	1772	1456



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.6	3.6
10°-20°	466.4	10.3
20°-30°	705.3	15.6
30°-40°	841.0	18.6
40°-50°	849.1	18.8
50°-60°	724.4	16.0
60°-70°	476.0	10.5
70°-80°	233.1	5.2
80°-90°	60.1	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°	1334.3	29.5
0°-40°	2175.4	48.1
0°-60°	3748.9	83.0
0°-90°	4518.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4518.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1715	1715	1715	1715	1715	
5°	1715	1711	1708	1708	1713	163
15°	1656	1653	1651	1651	1656	467
25°	1533	1529	1530	1532	1537	705
35°	1334	1338	1343	1353	1359	835
45°	1086	1089	1095	1117	1126	836
55°	794	799	810	829	835	707
65°	461	461	470	492	506	461
75°	223	221	214	212	214	239
85°	53	53	53	48	43	64
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1714.8	1714.8	1714.8	1714.8	1714.8
2.5°	1719.8	1716.2	1714.1	1712.6	1716.2
5°	1714.8	1711.2	1708.3	1708.3	1712.6
7.5°	1706.9	1703.3	1701.1	1700.4	1704.7
10°	1693.9	1689.5	1688.1	1687.4	1692.4
12.5°	1678.7	1672.2	1672.2	1671.5	1676.6
15°	1655.6	1652.8	1650.6	1651.3	1656.4
17.5°	1631.8	1628.9	1627.5	1627.5	1630.4
20°	1602.3	1598.6	1597.2	1598.6	1603.7
22.5°	1568.3	1566.2	1566.2	1567.6	1571.2
25°	1533.0	1529.4	1530.1	1532.3	1536.6
27.5°	1489.7	1489.0	1489.0	1494.0	1499.1
30°	1440.7	1440.7	1443.5	1450.8	1457.2
32.5°	1390.9	1390.2	1395.9	1402.4	1409.6
35°	1333.9	1337.5	1343.3	1352.6	1359.1
37.5°	1280.5	1279.8	1287.0	1303.6	1307.9
40°	1213.4	1218.5	1227.1	1243.7	1254.5
42.5°	1150.6	1154.3	1162.2	1181.7	1188.9
45°	1085.7	1088.6	1095.1	1116.7	1126.1
47.5°	1017.2	1020.8	1030.2	1048.2	1059.0
50°	947.9	953.0	959.5	976.8	985.4
52.5°	872.2	878.7	890.2	906.1	912.6
55°	794.3	798.6	810.1	828.9	835.4
57.5°	712.8	716.4	733.0	746.7	751.7
60°	622.6	626.9	643.5	665.1	670.9
62.5°	537.5	541.1	555.5	581.5	590.1
65°	461.0	461.0	470.4	492.0	505.7
67.5°	393.2	391.7	393.2	409.8	424.2
70°	327.5	328.2	324.6	334.7	345.6
72.5°	273.4	273.4	266.2	267.6	276.3
75°	222.9	220.8	213.5	212.1	214.3
77.5°	178.2	174.6	168.8	164.5	159.4
80°	134.2	131.3	127.0	120.5	113.3
82.5°	93.8	90.9	88.0	84.4	77.2
85°	53.4	53.4	52.7	48.3	43.3
87.5°	21.6	20.9	20.2	19.5	18.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)