

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: P738201

Luminaire Tested: **22PT-45-PP3-L840**

Issue Date: 2/8/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P738201  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P412714)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/8/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 22PT-45-PP3-L840  
Description: 4500 LUMEN 2X2 PERCEIVE PT TROFFER WITH 4000K, 80 CRI LEDS AND PRISM LENS

Light Source: -  
Ballast/Driver: -

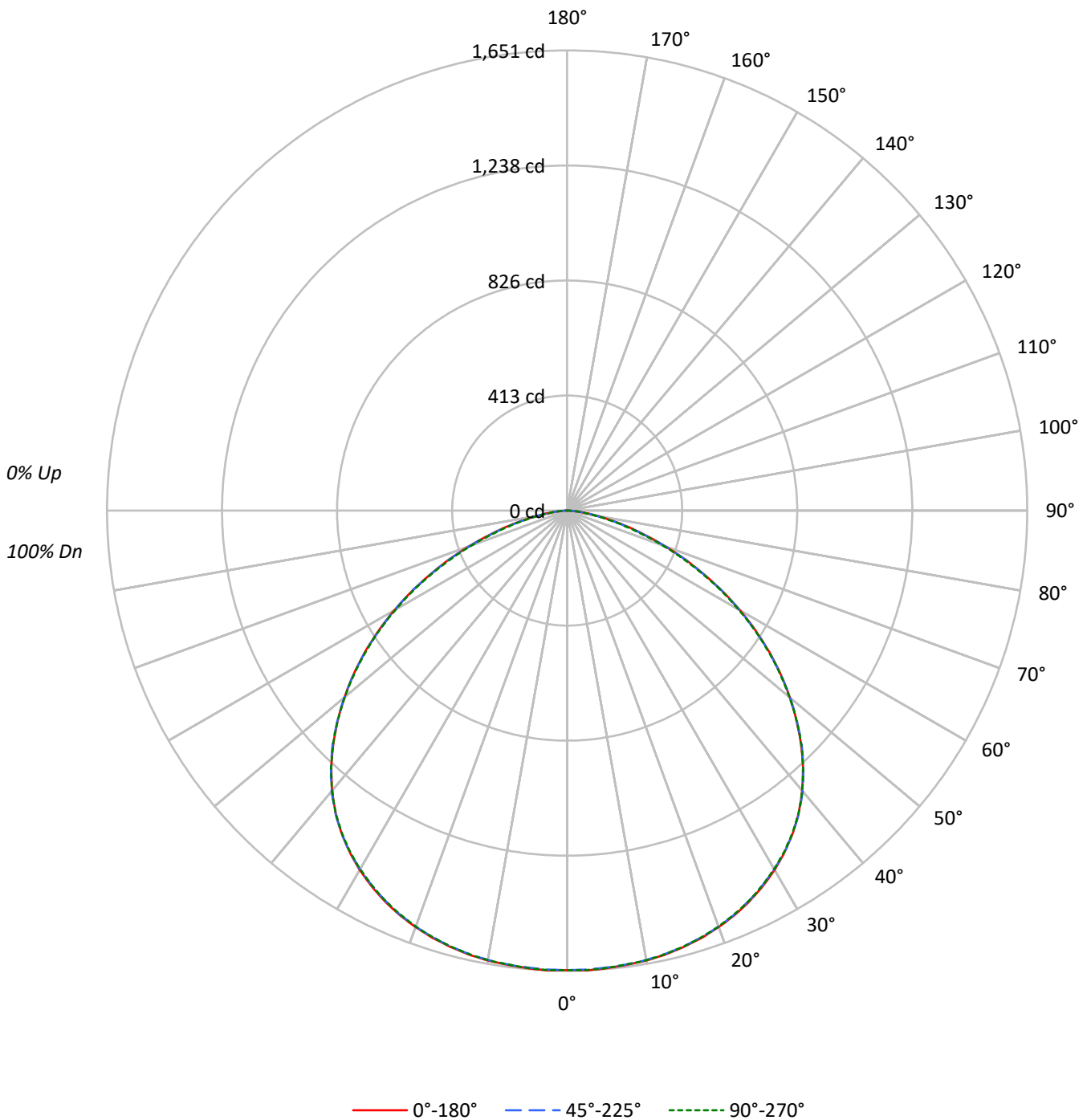
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4731.0 lumens  
Efficiency: N/A  
Efficacy: 134.0 lumens/watt  
Spacing Criteria (0/90/45): 1.33 / 1.33 / 1.43  
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	85	80	97	90	84	79	87	81	77	83	79	75	80	77	74	72
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	70	62	56	68	61	55	66	60	55	64	58	54	52
5	77	64	55	49	75	63	55	49	61	54	48	59	53	47	57	51	47	45
6	71	58	49	43	69	57	48	42	55	48	42	53	47	42	52	46	41	39
7	66	52	44	38	64	52	43	37	50	43	37	49	42	37	47	41	37	35
8	61	48	39	33	60	47	39	33	46	38	33	44	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	4831	4831	4831
5°	4847	4840	4844
10°	4876	4870	4873
15°	4915	4910	4910
20°	4958	4953	4951
25°	5002	4993	4993
30°	5037	5028	5026
35°	5051	5051	5045
40°	5018	5029	5018
45°	4919	4932	4925
50°	4754	4761	4748
55°	4525	4514	4506
60°	4201	4191	4159
65°	3752	3749	3706
70°	3207	3188	3118
75°	2555	2480	2406
80°	1821	1785	1691
85°	1183	1183	1146



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	156.8	3.3
10°-20°	457.4	9.7
20°-30°	712.3	15.1
30°-40°	881.5	18.6
40°-50°	914.1	19.3
50°-60°	787.9	16.7
60°-70°	535.7	11.3
70°-80°	239.7	5.1
80°-90°	45.6	1.0
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°	1326.5	28.0
0°-40°	2208.0	46.7
0°-60°	3910.0	82.6
0°-90°	4731.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4731.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1649	1649	1649	1649	1649	
5°	1648	1645	1646	1645	1647	157
15°	1620	1618	1619	1618	1619	458
25°	1547	1545	1544	1544	1544	713
35°	1412	1410	1412	1410	1410	882
45°	1187	1186	1190	1188	1189	914
55°	886	883	884	882	882	790
65°	541	546	541	539	535	537
75°	226	226	219	218	212	243
85°	35	36	35	34	34	46
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1648.9	1648.9	1648.9	1648.9	1648.9
2.5°	1651.2	1647.8	1647.8	1648.5	1650.2
5°	1647.8	1644.6	1645.7	1645.1	1646.8
7.5°	1643.5	1640.7	1642.4	1641.2	1642.4
10°	1639.0	1636.3	1636.9	1636.3	1638.0
12.5°	1631.3	1628.1	1629.2	1629.2	1629.8
15°	1620.4	1617.6	1618.7	1617.6	1618.7
17.5°	1607.1	1603.8	1604.4	1603.8	1604.9
20°	1590.1	1587.9	1588.4	1587.3	1587.9
22.5°	1570.8	1568.0	1568.6	1567.5	1567.5
25°	1547.2	1544.8	1544.4	1543.8	1544.4
27.5°	1519.5	1516.9	1516.9	1516.3	1516.3
30°	1488.8	1486.0	1486.0	1485.4	1485.4
32.5°	1452.4	1451.3	1451.9	1450.8	1450.2
35°	1412.2	1410.5	1412.2	1410.0	1410.5
37.5°	1365.4	1363.3	1366.5	1364.3	1364.8
40°	1312.0	1310.9	1314.8	1313.1	1312.0
42.5°	1252.6	1252.6	1254.3	1254.7	1253.6
45°	1187.1	1186.0	1190.3	1187.5	1188.6
47.5°	1116.5	1115.0	1118.2	1117.6	1117.1
50°	1042.9	1041.6	1044.4	1041.6	1041.6
52.5°	966.3	965.7	966.3	963.5	962.9
55°	885.8	882.6	883.7	882.0	882.0
57.5°	802.1	798.3	798.9	798.3	798.9
60°	716.9	715.7	715.2	712.4	709.7
62.5°	629.4	630.4	629.8	626.0	623.2
65°	541.2	545.7	540.7	539.0	534.6
67.5°	458.1	459.7	456.4	452.6	447.6
70°	374.4	377.7	372.1	368.3	363.9
72.5°	294.6	296.8	291.8	289.7	284.1
75°	225.7	226.4	219.1	218.0	212.5
77.5°	160.7	162.9	157.5	157.5	151.9
80°	107.9	111.8	105.8	104.1	100.2
82.5°	67.8	68.2	66.5	65.0	63.3
85°	35.2	36.3	35.2	34.1	34.1
87.5°	13.3	13.7	13.3	12.7	13.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)