

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: P738193

Luminaire Tested: **22PT-45-PL1-L840**

Issue Date: 2/8/2024



Test Information

Test Method: LM-79-08
Report Number: P738193
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-L840
Description: 4500 LUMEN 2X2 PERCEIVE PT TROFFER WITH 4000K, 80 CRI LEDS AND LEAVES LENS

Light Source: -
Ballast/Driver: -

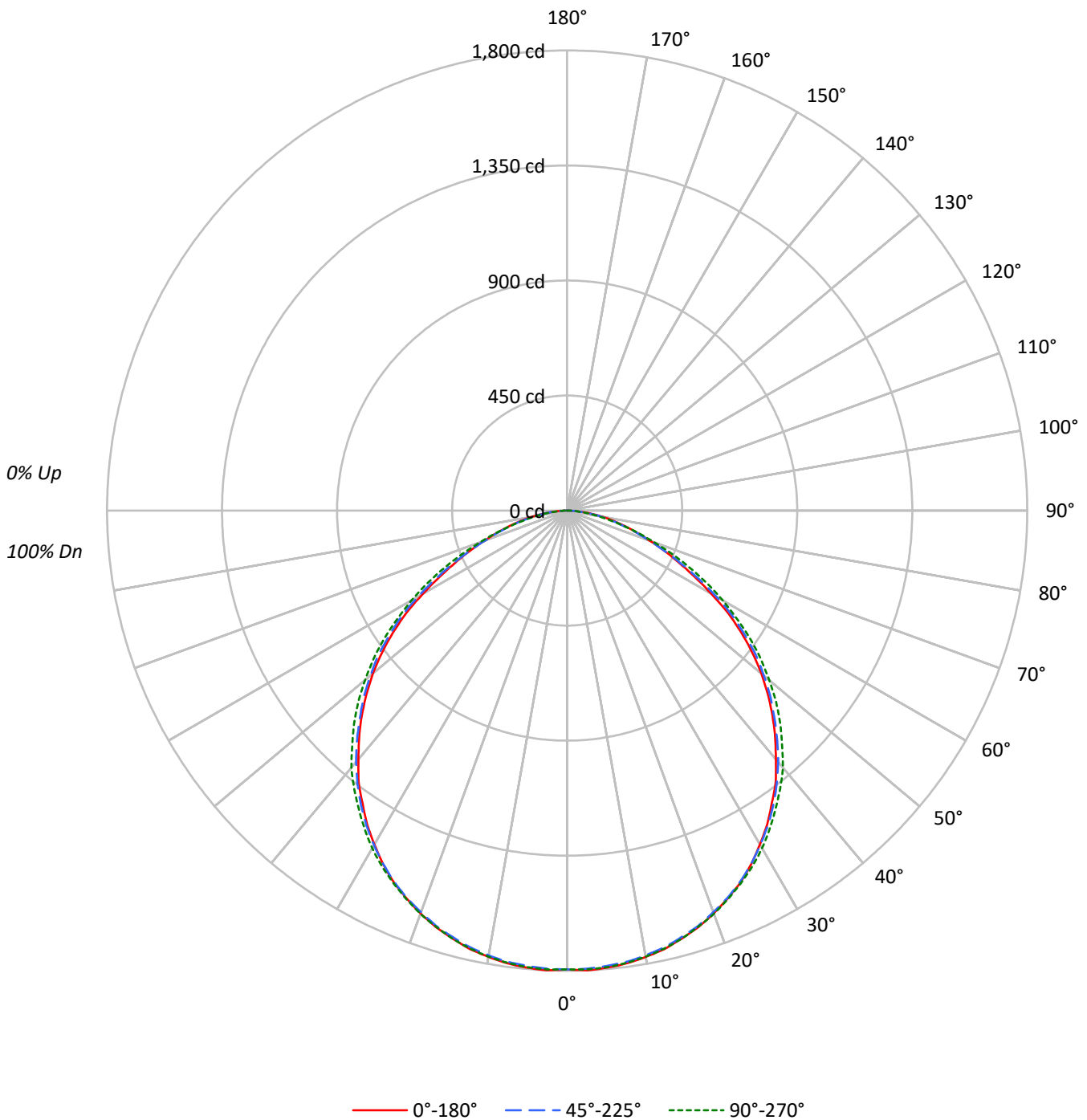
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4729.0 lumens
Efficiency: N/A
Efficacy: 134.0 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 (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

TEST NUMBER: P738193
CATALOG NUMBER: 22PT-45-PL1-L840

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	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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85					85			
2	100	92	86	80	97	90	84	79	87	82	77	83	79	76	80	77	74	72					72			
3	91	81	73	67	89	80	72	67	77	71	65	74	69	64	72	67	63	61					61			
4	84	72	64	57	82	71	63	57	68	62	56	66	60	55	64	59	55	52					52			
5	77	65	56	50	75	64	55	49	62	54	49	60	53	48	58	52	48	46					46			
6	71	58	50	43	70	57	49	43	56	48	43	54	47	42	52	47	42	40					40			
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	37	35					35			
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	32					32			
9	58	44	36	31	56	44	36	31	43	36	31	42	35	31	41	35	30	29					29			
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26					26			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5259	5259	5259
5°	5279	5259	5272
10°	5275	5257	5271
15°	5257	5241	5259
20°	5229	5213	5234
25°	5188	5178	5200
30°	5102	5112	5161
35°	4994	5029	5089
40°	4858	4913	5023
45°	4709	4750	4884
50°	4523	4578	4702
55°	4247	4332	4467
60°	3819	3947	4115
65°	3345	3413	3670
70°	2937	2911	3099
75°	2641	2530	2539
80°	2369	2242	2001
85°	1879	1852	1523



TEST NUMBER: P738193

CATALOG NUMBER: 22PT-45-PL1-L840

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.2	3.6
10°-20°	488.2	10.3
20°-30°	738.3	15.6
30°-40°	880.3	18.6
40°-50°	888.8	18.8
50°-60°	758.2	16.0
60°-70°	498.2	10.5
70°-80°	244.0	5.2
80°-90°	62.9	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°	1396.7	29.5
0°-40°	2276.9	48.1
0°-60°	3923.9	83.0
0°-90°	4729.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4729.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1795	1795	1795	1795	1795	
5°	1795	1791	1788	1788	1793	171
15°	1733	1730	1728	1728	1734	489
25°	1605	1601	1602	1604	1608	738
35°	1396	1400	1406	1416	1423	874
45°	1136	1139	1146	1169	1179	875
55°	831	836	848	868	874	740
65°	482	482	492	515	529	483
75°	233	231	224	222	224	250
85°	56	56	55	51	45	67
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1794.9	1794.9	1794.9	1794.9	1794.9
2.5°	1800.2	1796.4	1794.1	1792.6	1796.4
5°	1794.9	1791.1	1788.1	1788.1	1792.6
7.5°	1786.6	1782.8	1780.5	1779.8	1784.3
10°	1773.0	1768.4	1766.9	1766.2	1771.5
12.5°	1757.1	1750.3	1750.3	1749.6	1754.9
15°	1733.0	1729.9	1727.7	1728.4	1733.7
17.5°	1708.0	1705.0	1703.5	1703.5	1706.5
20°	1677.1	1673.3	1671.8	1673.3	1678.6
22.5°	1641.6	1639.3	1639.3	1640.8	1644.6
25°	1604.6	1600.8	1601.6	1603.8	1608.4
27.5°	1559.3	1558.5	1558.5	1563.8	1569.1
30°	1507.9	1507.9	1511.0	1518.5	1525.3
32.5°	1455.8	1455.1	1461.1	1467.9	1475.5
35°	1396.2	1400.0	1406.0	1415.8	1422.6
37.5°	1340.3	1339.6	1347.1	1364.5	1369.0
40°	1270.1	1275.4	1284.4	1301.8	1313.1
42.5°	1204.4	1208.2	1216.5	1236.9	1244.4
45°	1136.4	1139.4	1146.2	1168.9	1178.7
47.5°	1064.7	1068.5	1078.3	1097.2	1108.5
50°	992.2	997.5	1004.3	1022.4	1031.5
52.5°	912.9	919.7	931.8	948.4	955.2
55°	831.4	835.9	848.0	867.6	874.4
57.5°	746.0	749.8	767.2	781.5	786.8
60°	651.7	656.2	673.6	696.2	702.2
62.5°	562.6	566.3	581.4	608.6	617.7
65°	482.5	482.5	492.3	515.0	529.3
67.5°	411.5	410.0	411.5	428.9	444.0
70°	342.8	343.6	339.8	350.4	361.7
72.5°	286.2	286.2	278.6	280.1	289.2
75°	233.3	231.1	223.5	222.0	224.3
77.5°	186.5	182.7	176.7	172.2	166.9
80°	140.4	137.4	132.9	126.1	118.6
82.5°	98.2	95.1	92.1	88.3	80.8
85°	55.9	55.9	55.1	50.6	45.3
87.5°	22.7	21.9	21.1	20.4	18.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)