

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: P738185

Luminaire Tested: **22PT-45-PC3-L840**

Issue Date: 2/8/2024



Test Information

Test Method: LM-79-08
Report Number: P738185
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P413056)
Test Lab: INNOVATION CENTER
Issue Date: 2/8/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 22PT-45-PC3-L840
Description: 4500 LUMEN 2X2 PERCEIVE PT TROFFER WITH 4000K, 80 CRI LEDS AND PARAMID LENS

Light Source: -
Ballast/Driver: -

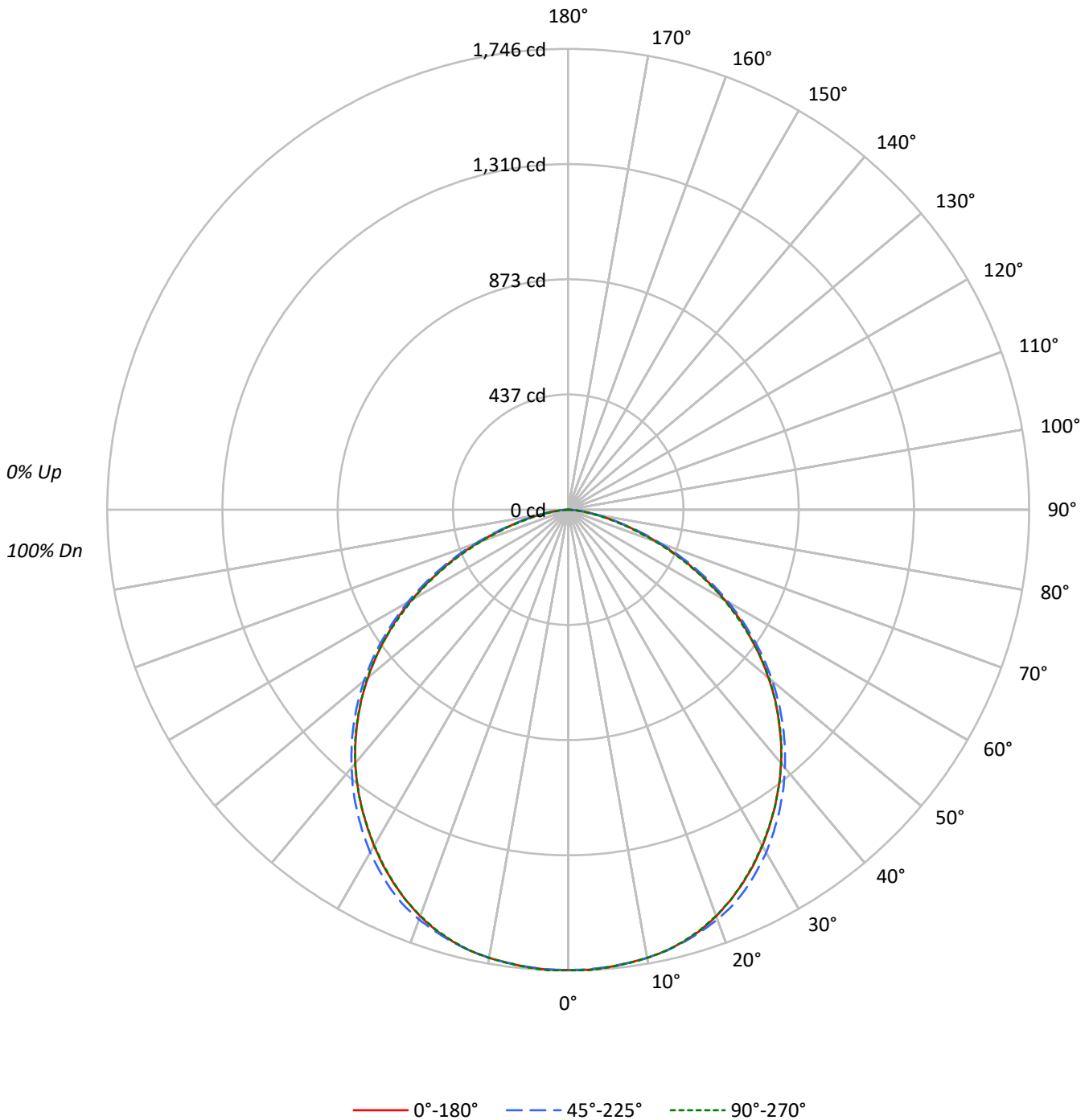
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4686.0 lumens
Efficiency: N/A
Efficacy: 132.7 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.37
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

TEST NUMBER: P738185
CATALOG NUMBER: 22PT-45-PC3-L840

Luminous Intensity Polar Plot





TEST NUMBER: P738185

CATALOG NUMBER: 22PT-45-PC3-L840

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	110	105	101	97	107	103	99	96	99	96	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	70	65		74	69	64		71	67	63	61
4	84	72	64	57	82	71	63	57	68	61	56		66	60	55		64	59	54	52
5	77	65	56	49	75	63	55	49	61	54	49		59	53	48		58	52	47	45
6	71	58	49	43	69	57	49	43	55	48	43		54	47	42		52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38		49	42	37		48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34		45	38	34		44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	30		41	35	30		40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	28		38	32	28		38	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5111	5111	5111
5°	5117	5114	5121
10°	5131	5128	5131
15°	5136	5143	5135
20°	5110	5152	5107
25°	5051	5134	5048
30°	4976	5074	4968
35°	4890	4987	4890
40°	4798	4883	4798
45°	4672	4764	4679
50°	4512	4601	4530
55°	4303	4387	4303
60°	4012	4113	3987
65°	3600	3727	3554
70°	3080	3189	2989
75°	2444	2512	2317
80°	1751	1817	1667
85°	1156	1193	1083



TEST NUMBER: P738185

CATALOG NUMBER: 22PT-45-PC3-L840

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.5	3.5
10°-20°	478.0	10.2
20°-30°	725.3	15.5
30°-40°	866.1	18.5
40°-50°	880.9	18.8
50°-60°	761.9	16.3
60°-70°	524.3	11.2
70°-80°	237.9	5.1
80°-90°	46.1	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°	1368.8	29.2
0°-40°	2234.9	47.7
0°-60°	3877.7	82.8
0°-90°	4686.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4686.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1744	1744	1744	1744	1744	
5°	1740	1738	1739	1739	1741	166
15°	1693	1694	1695	1693	1693	478
25°	1562	1576	1588	1573	1561	720
35°	1367	1392	1394	1389	1367	855
45°	1127	1148	1150	1148	1129	869
55°	842	857	859	857	842	753
65°	519	534	538	533	513	515
75°	216	224	222	220	205	232
85°	34	37	36	34	32	45
90°	0	0	0	0	0	



TEST NUMBER: P738185

CATALOG NUMBER: 22PT-45-PC3-L840

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1744.3	1744.3	1744.3	1744.3	1744.3
2.5°	1744.3	1742.1	1742.6	1743.2	1746.5
5°	1739.9	1738.2	1738.7	1738.7	1741.0
7.5°	1732.6	1732.1	1732.1	1731.5	1733.2
10°	1724.4	1723.3	1723.7	1723.3	1724.4
12.5°	1711.6	1711.6	1712.1	1710.5	1711.6
15°	1693.2	1694.3	1695.4	1692.8	1692.8
17.5°	1669.9	1672.7	1675.5	1670.5	1667.7
20°	1638.9	1645.6	1652.2	1644.4	1637.8
22.5°	1602.8	1613.9	1624.0	1611.7	1602.8
25°	1562.4	1576.2	1587.9	1573.4	1561.3
27.5°	1518.5	1534.0	1545.1	1532.9	1516.3
30°	1470.8	1489.7	1499.6	1488.0	1468.5
32.5°	1419.8	1441.9	1448.0	1440.8	1418.6
35°	1367.0	1391.5	1394.3	1389.3	1367.0
37.5°	1312.1	1335.4	1337.6	1334.8	1312.1
40°	1254.4	1276.0	1276.6	1276.6	1254.4
42.5°	1192.9	1213.9	1213.9	1213.3	1194.5
45°	1127.4	1147.9	1149.6	1148.4	1129.1
47.5°	1062.5	1078.0	1080.7	1078.5	1061.4
50°	989.8	1005.8	1009.3	1006.9	993.7
52.5°	917.6	932.7	936.0	934.2	919.3
55°	842.3	856.6	858.8	857.2	842.3
57.5°	769.6	778.9	781.1	777.8	759.0
60°	684.6	698.0	701.9	698.0	680.3
62.5°	602.6	616.9	620.3	614.7	595.9
65°	519.3	533.7	537.5	533.2	512.6
67.5°	440.6	451.0	454.4	449.5	430.5
70°	359.5	372.9	372.3	365.6	348.9
72.5°	279.7	297.9	294.6	290.7	272.4
75°	215.9	224.1	221.9	219.7	204.7
77.5°	154.2	164.2	158.7	159.2	146.4
80°	103.8	113.1	107.7	105.4	98.8
82.5°	66.0	69.9	68.8	67.7	61.6
85°	34.4	36.6	35.5	34.4	32.2
87.5°	13.4	14.5	13.4	13.4	12.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)