

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: P738216

Luminaire Tested: **22PT-45-PW1-L835**

Issue Date: 2/8/2024



Test Information

Test Method: LM-79-08
Report Number: P738216
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P506233)
Test Lab: INNOVATION CENTER
Issue Date: 2/8/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 22PT-45-PW1-L835
Description: 4500 LUMEN 2X2 PERCEIVE PT TROFFER WITH 3500K, 80 CRI LEDS AND WAVES LENS

Light Source: -
Ballast/Driver: -

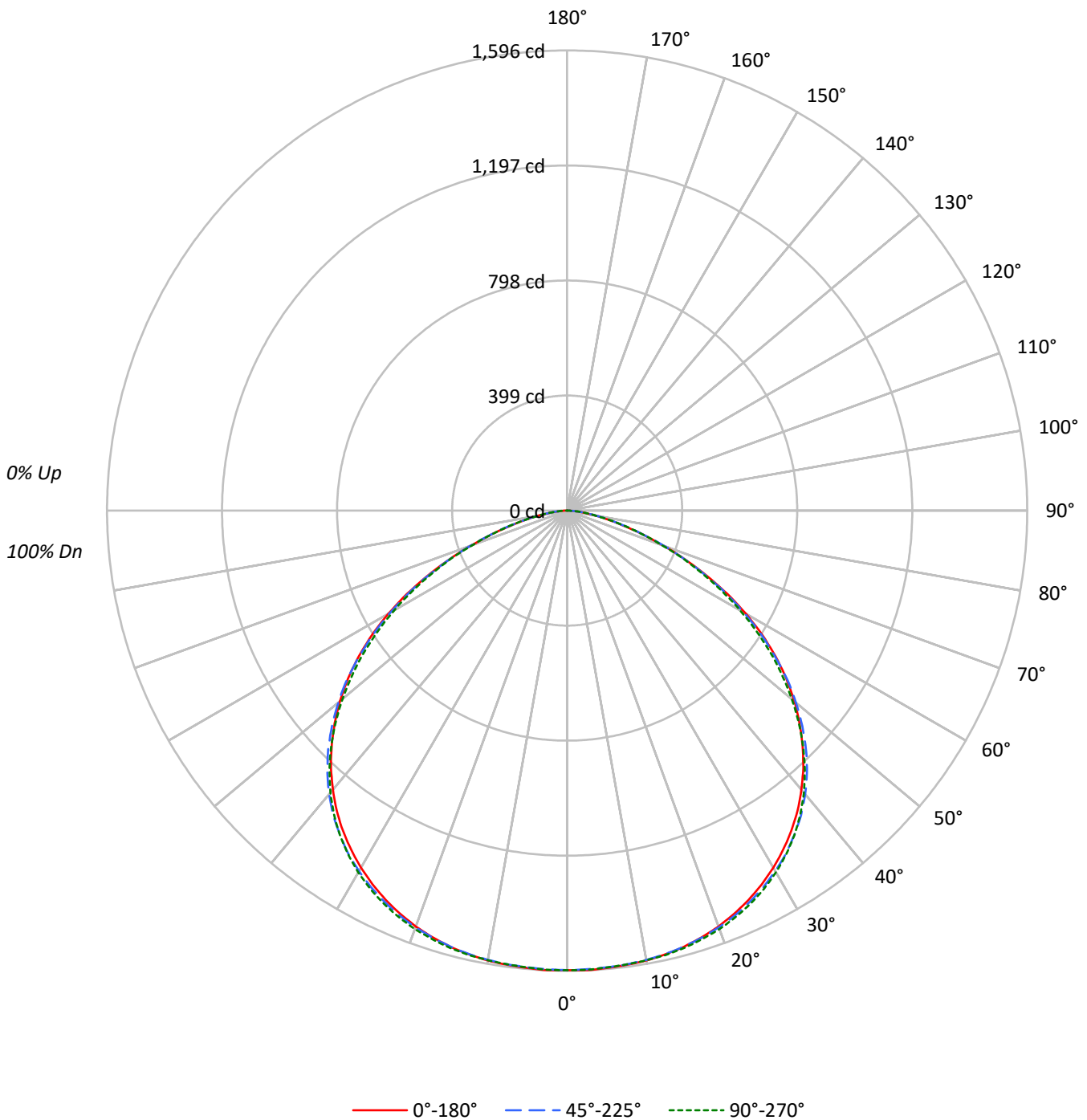
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4608.0 lumens
Efficiency: N/A
Efficacy: 130.5 lumens/watt
Spacing Criteria (0/90/45): 1.33 / 1.34 / 1.44
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	99	96	93		95	92	90		91	89	87	85
2	100	92	85	80	97	90	84	79	87	82	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	83	72	63	57	81	70	62	56	68	61	55		66	60	55		63	58	54	52
5	77	64	55	49	75	63	55	48	61	54	48		59	52	47		57	51	47	45
6	71	58	49	42	69	57	48	42	55	47	42		53	47	42		52	46	41	39
7	66	52	44	37	64	51	43	37	50	42	37		48	42	37		47	41	37	35
8	61	48	39	33	59	47	39	33	46	38	33		44	38	33		43	37	33	31
9	57	44	35	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°	4671	4671	4671
5°	4683	4677	4679
10°	4714	4707	4712
15°	4751	4749	4763
20°	4786	4797	4816
25°	4815	4842	4864
30°	4839	4885	4902
35°	4850	4913	4915
40°	4835	4914	4886
45°	4788	4856	4797
50°	4691	4724	4638
55°	4508	4488	4404
60°	4197	4150	4063
65°	3701	3666	3595
70°	3032	3046	2982
75°	2296	2373	2355
80°	1664	1731	1703
85°	1089	1130	1207



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.6	3.3
10°-20°	442.7	9.6
20°-30°	690.2	15.0
30°-40°	855.5	18.6
40°-50°	895.2	19.4
50°-60°	780.1	16.9
60°-70°	522.5	11.3
70°-80°	226.5	4.9
80°-90°	43.6	0.9
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°	1284.5	27.9
0°-40°	2140.0	46.4
0°-60°	3815.3	82.8
0°-90°	4608.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4608.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1594	1594	1594	1594	1594	
5°	1592	1591	1590	1590	1591	152
15°	1566	1564	1566	1567	1570	442
25°	1489	1490	1498	1502	1505	687
35°	1356	1361	1374	1375	1374	848
45°	1156	1162	1172	1162	1158	890
55°	882	882	879	869	862	786
65°	534	531	529	524	518	528
75°	203	206	210	208	208	224
85°	32	35	34	34	36	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1594.1	1594.1	1594.1	1594.1	1594.1
2.5°	1595.8	1592.9	1592.3	1592.3	1594.1
5°	1592.3	1590.7	1590.1	1589.6	1590.7
7.5°	1589.0	1586.7	1587.3	1586.1	1587.3
10°	1584.5	1582.2	1582.2	1582.2	1583.8
12.5°	1576.4	1574.8	1575.4	1576.4	1578.7
15°	1566.1	1563.9	1565.7	1567.3	1570.2
17.5°	1551.9	1550.2	1553.1	1556.0	1558.2
20°	1534.9	1533.1	1538.3	1542.3	1544.6
22.5°	1513.7	1513.3	1520.1	1524.6	1526.3
25°	1489.3	1489.8	1497.8	1502.4	1504.6
27.5°	1461.3	1462.5	1472.8	1476.8	1479.0
30°	1430.1	1432.8	1443.7	1447.1	1448.9
32.5°	1394.7	1398.7	1411.8	1414.0	1414.0
35°	1356.0	1361.0	1373.6	1375.3	1374.2
37.5°	1312.7	1318.3	1332.5	1330.3	1328.6
40°	1264.2	1270.4	1284.7	1280.1	1277.4
42.5°	1212.4	1218.6	1231.2	1224.4	1220.3
45°	1155.5	1161.7	1172.0	1162.3	1157.7
47.5°	1093.8	1101.2	1106.4	1095.6	1089.9
50°	1029.0	1031.3	1036.4	1023.8	1017.5
52.5°	958.2	958.2	962.3	948.6	941.1
55°	882.5	881.9	878.6	868.9	862.1
57.5°	802.2	798.7	796.5	786.2	778.3
60°	716.2	711.0	708.2	699.7	693.3
62.5°	626.2	623.3	619.8	613.0	606.2
65°	533.8	530.9	528.7	523.7	518.5
67.5°	442.2	440.3	440.3	437.0	436.4
70°	353.9	354.9	355.5	355.5	348.1
72.5°	274.0	274.6	277.5	275.2	274.6
75°	202.8	206.3	209.6	208.0	208.0
77.5°	145.9	151.0	151.0	149.8	148.1
80°	98.6	100.9	102.6	101.9	100.9
82.5°	62.7	64.4	62.7	63.8	64.4
85°	32.4	34.7	33.6	34.2	35.9
87.5°	10.8	12.0	12.6	12.0	12.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)