

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: P738221

Luminaire Tested: **22PT-45-PW1-L940**

Issue Date: 2/8/2024



Test Information

Test Method: LM-79-08
Report Number: P738221
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-L940
Description: 4500 LUMEN 2X2 PERCEIVE PT TROFFER WITH 4000K, 90 CRI LEDS AND WAVES LENS

Light Source: -
Ballast/Driver: -

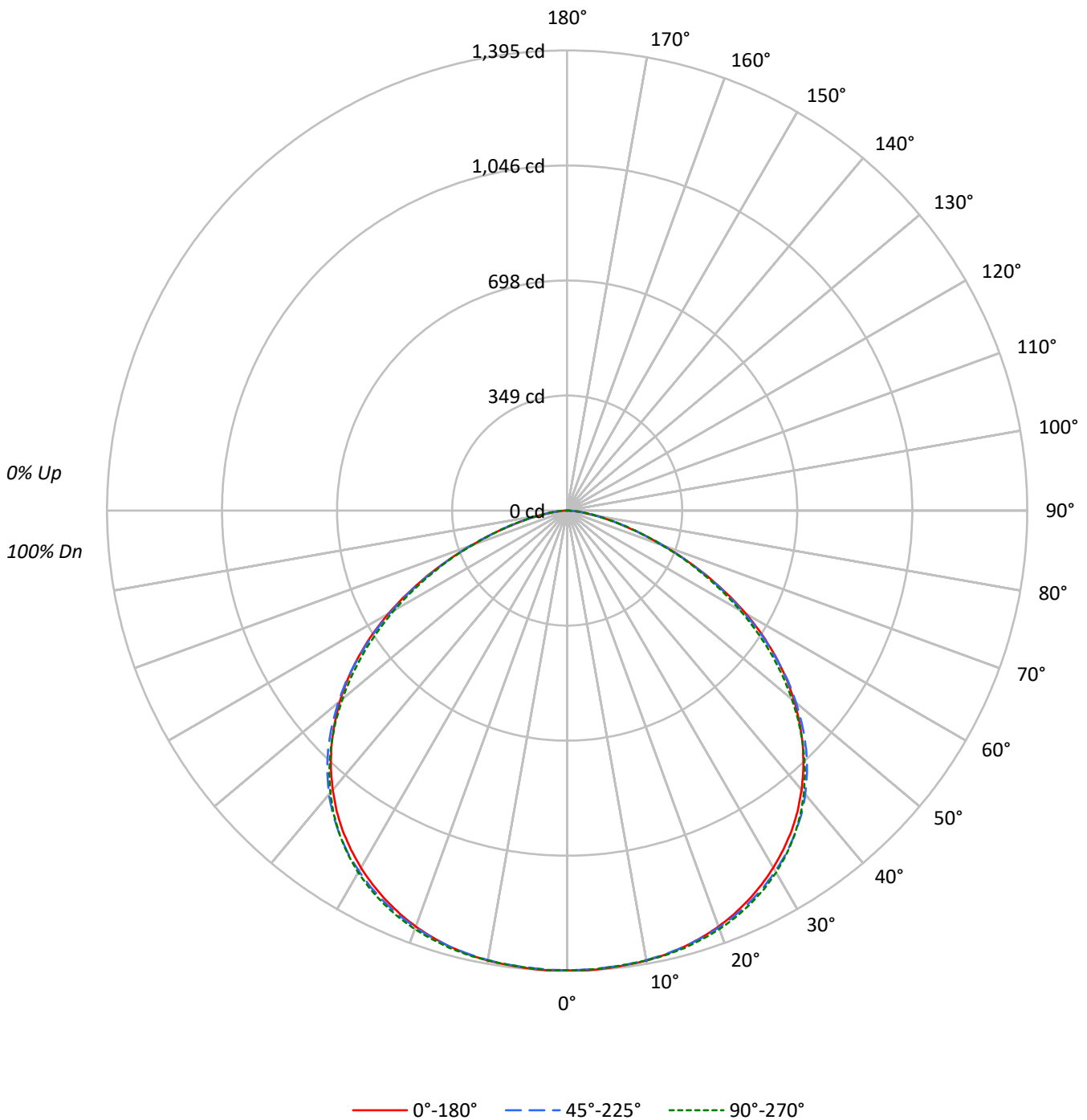
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4029.0 lumens
Efficiency: N/A
Efficacy: 114.1 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	84	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°	4084	4084	4084
5°	4095	4089	4091
10°	4122	4116	4120
15°	4154	4152	4165
20°	4185	4194	4211
25°	4210	4234	4253
30°	4231	4271	4286
35°	4241	4296	4298
40°	4228	4297	4272
45°	4186	4246	4195
50°	4101	4131	4055
55°	3942	3924	3850
60°	3670	3629	3552
65°	3236	3204	3143
70°	2651	2663	2608
75°	2007	2075	2058
80°	1455	1514	1488
85°	951	988	1056



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.5	3.3
10°-20°	387.1	9.6
20°-30°	603.5	15.0
30°-40°	748.0	18.6
40°-50°	782.7	19.4
50°-60°	682.1	16.9
60°-70°	456.9	11.3
70°-80°	198.0	4.9
80°-90°	38.1	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°	1123.1	27.9
0°-40°	1871.1	46.4
0°-60°	3335.9	82.8
0°-90°	4029.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4029.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1394	1394	1394	1394	1394	
5°	1392	1391	1390	1390	1391	133
15°	1369	1367	1369	1370	1373	387
25°	1302	1303	1310	1314	1316	600
35°	1186	1190	1201	1202	1202	741
45°	1010	1016	1025	1016	1012	778
55°	772	771	768	760	754	687
65°	467	464	462	458	453	462
75°	177	180	183	182	182	195
85°	28	30	29	30	31	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1393.8	1393.8	1393.8	1393.8	1393.8
2.5°	1395.3	1392.8	1392.3	1392.3	1393.8
5°	1392.3	1390.8	1390.3	1389.9	1390.8
7.5°	1389.3	1387.4	1387.9	1386.8	1387.9
10°	1385.4	1383.4	1383.4	1383.4	1384.8
12.5°	1378.3	1376.9	1377.4	1378.3	1380.3
15°	1369.3	1367.4	1368.9	1370.4	1372.9
17.5°	1356.9	1355.4	1357.9	1360.5	1362.5
20°	1342.1	1340.5	1345.0	1348.5	1350.5
22.5°	1323.5	1323.1	1329.1	1333.0	1334.5
25°	1302.2	1302.6	1309.6	1313.6	1315.6
27.5°	1277.7	1278.7	1287.8	1291.2	1293.2
30°	1250.4	1252.8	1262.3	1265.2	1266.8
32.5°	1219.4	1223.0	1234.4	1236.4	1236.4
35°	1185.6	1190.0	1201.0	1202.5	1201.5
37.5°	1147.8	1152.7	1165.1	1163.1	1161.7
40°	1105.4	1110.8	1123.3	1119.3	1116.9
42.5°	1060.1	1065.5	1076.5	1070.5	1067.0
45°	1010.3	1015.7	1024.7	1016.2	1012.3
47.5°	956.4	962.9	967.4	958.0	952.9
50°	899.7	901.7	906.2	895.2	889.6
52.5°	837.8	837.8	841.4	829.4	822.9
55°	771.6	771.1	768.2	759.7	753.7
57.5°	701.4	698.4	696.4	687.4	680.5
60°	626.2	621.7	619.2	611.8	606.2
62.5°	547.5	545.0	542.0	536.0	530.0
65°	466.7	464.2	462.2	457.9	453.4
67.5°	386.6	385.0	385.0	382.1	381.6
70°	309.4	310.3	310.8	310.8	304.4
72.5°	239.6	240.1	242.6	240.7	240.1
75°	177.3	180.4	183.3	181.8	181.8
77.5°	127.5	132.0	132.0	131.0	129.5
80°	86.2	88.2	89.7	89.1	88.2
82.5°	54.8	56.3	54.8	55.8	56.3
85°	28.3	30.3	29.4	29.9	31.4
87.5°	9.4	10.5	11.0	10.5	10.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)