

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: P738222

Luminaire Tested: **22PT-45-PW1-L950**

Issue Date: 2/8/2024



Test Information

Test Method: LM-79-08
Report Number: P738222
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-L950
Description: 4500 LUMEN 2X2 PERCEIVE PT TROFFER WITH 5000K, 90 CRI LEDS AND WAVES LENS

Light Source: -
Ballast/Driver: -

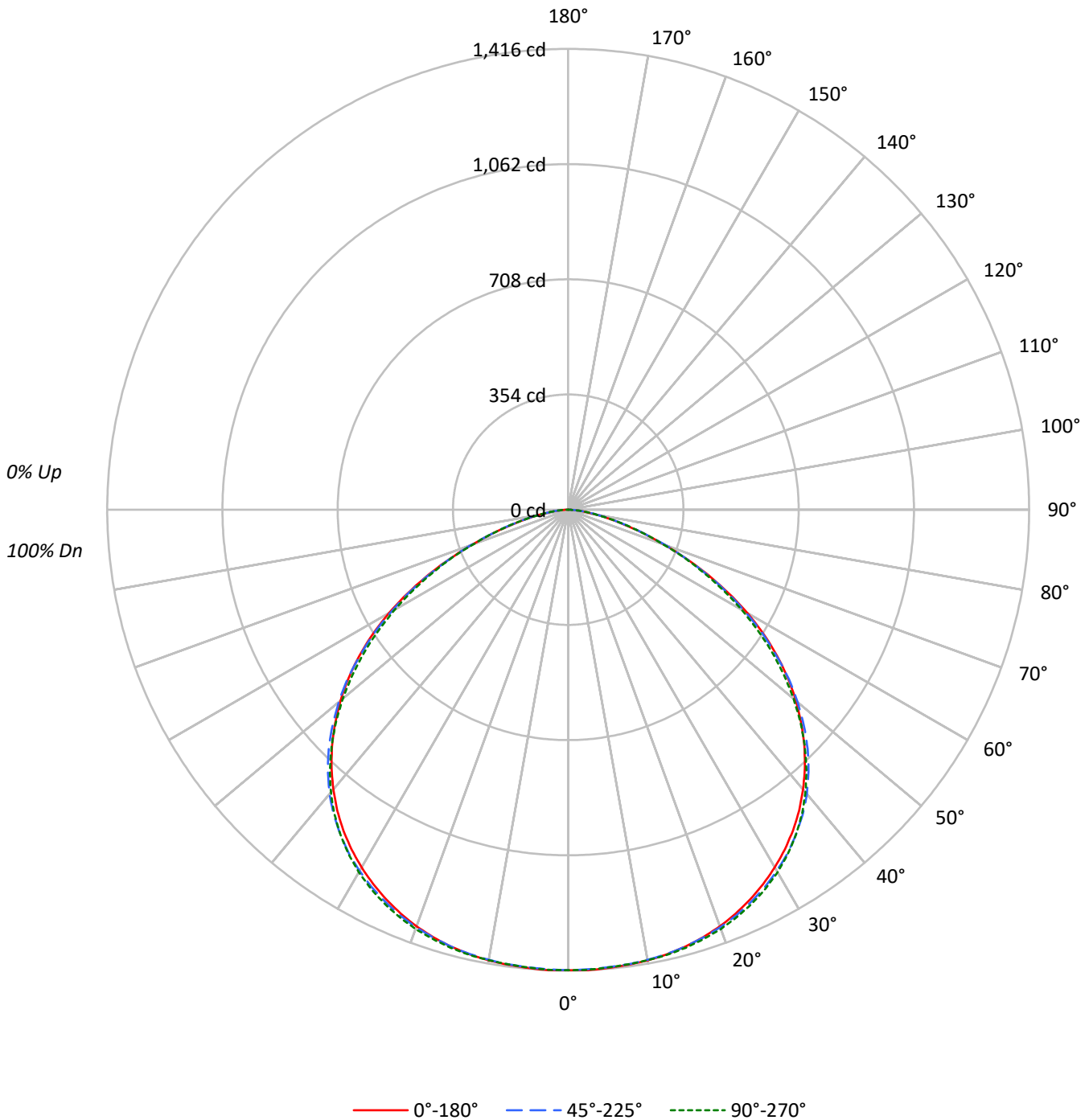
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4090.0 lumens
Efficiency: N/A
Efficacy: 115.9 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°	4146	4146	4146
5°	4157	4151	4153
10°	4184	4178	4183
15°	4217	4216	4228
20°	4248	4257	4275
25°	4274	4298	4318
30°	4294	4335	4351
35°	4305	4361	4363
40°	4292	4362	4337
45°	4250	4310	4258
50°	4163	4193	4117
55°	4001	3984	3909
60°	3725	3684	3606
65°	3285	3253	3191
70°	2691	2704	2647
75°	2038	2107	2090
80°	1476	1535	1510
85°	968	1002	1072



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.5	3.3
10°-20°	393.0	9.6
20°-30°	612.6	15.0
30°-40°	759.3	18.6
40°-50°	794.6	19.4
50°-60°	692.4	16.9
60°-70°	463.8	11.3
70°-80°	201.1	4.9
80°-90°	38.7	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°	1140.1	27.9
0°-40°	1899.5	46.4
0°-60°	3386.4	82.8
0°-90°	4090.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4090.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1415	1415	1415	1415	1415	
5°	1413	1412	1411	1411	1412	135
15°	1390	1388	1390	1391	1394	393
25°	1322	1322	1329	1334	1336	610
35°	1204	1208	1219	1221	1220	752
45°	1026	1031	1040	1032	1028	790
55°	783	783	780	771	765	697
65°	474	471	469	465	460	469
75°	180	183	186	185	185	198
85°	29	31	30	30	32	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1414.9	1414.9	1414.9	1414.9	1414.9
2.5°	1416.4	1413.9	1413.3	1413.3	1414.9
5°	1413.3	1411.9	1411.3	1410.9	1411.9
7.5°	1410.4	1408.4	1408.9	1407.8	1408.9
10°	1406.3	1404.3	1404.3	1404.3	1405.8
12.5°	1399.2	1397.7	1398.3	1399.2	1401.2
15°	1390.1	1388.1	1389.7	1391.1	1393.7
17.5°	1377.4	1376.0	1378.5	1381.1	1383.1
20°	1362.4	1360.8	1365.3	1369.0	1371.0
22.5°	1343.6	1343.1	1349.2	1353.2	1354.7
25°	1321.9	1322.3	1329.4	1333.5	1335.5
27.5°	1297.0	1298.1	1307.3	1310.7	1312.8
30°	1269.3	1271.8	1281.4	1284.4	1286.0
32.5°	1237.9	1241.5	1253.1	1255.1	1255.1
35°	1203.6	1208.0	1219.2	1220.7	1219.7
37.5°	1165.1	1170.1	1182.8	1180.7	1179.3
40°	1122.1	1127.6	1140.3	1136.2	1133.8
42.5°	1076.1	1081.6	1092.8	1086.8	1083.1
45°	1025.6	1031.1	1040.2	1031.6	1027.6
47.5°	970.9	977.4	982.0	972.5	967.4
50°	913.3	915.3	919.9	908.7	903.1
52.5°	850.5	850.5	854.2	841.9	835.3
55°	783.3	782.8	779.8	771.2	765.2
57.5°	712.0	709.0	706.9	697.8	690.8
60°	635.7	631.1	628.6	621.0	615.4
62.5°	555.8	553.3	550.2	544.1	538.1
65°	473.8	471.2	469.2	464.8	460.2
67.5°	392.5	390.8	390.8	387.9	387.3
70°	314.1	315.0	315.6	315.6	309.0
72.5°	243.2	243.8	246.3	244.3	243.8
75°	180.0	183.1	186.1	184.6	184.6
77.5°	129.5	134.0	134.0	133.0	131.5
80°	87.5	89.5	91.0	90.5	89.5
82.5°	55.7	57.1	55.7	56.6	57.1
85°	28.8	30.8	29.8	30.4	31.9
87.5°	9.5	10.6	11.2	10.6	10.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)