

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: P738220

Luminaire Tested: **22PT-45-PW1-L935**

Issue Date: 2/8/2024



Test Information

Test Method: LM-79-08
Report Number: P738220
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-L935
Description: 4500 LUMEN 2X2 PERCEIVE PT TROFFER WITH 3500K, 90 CRI LEDS AND WAVES LENS

Light Source: -
Ballast/Driver: -

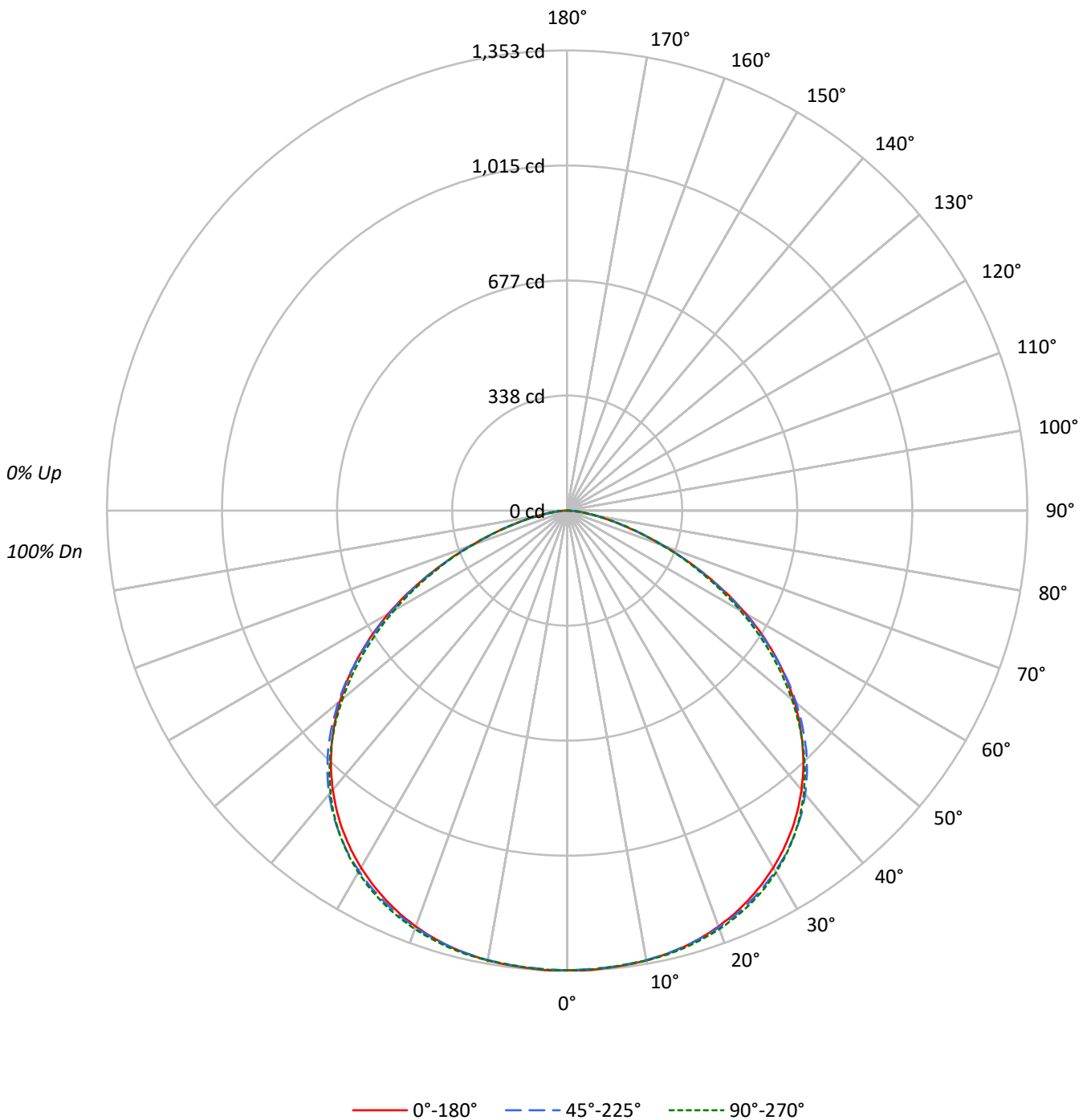
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3907.0 lumens
Efficiency: N/A
Efficacy: 110.7 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 (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

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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°	3960	3960	3960
5°	3971	3965	3967
10°	3997	3991	3995
15°	4028	4027	4038
20°	4058	4067	4083
25°	4083	4106	4124
30°	4102	4142	4156
35°	4112	4166	4168
40°	4100	4166	4143
45°	4060	4118	4067
50°	3977	4005	3933
55°	3823	3805	3734
60°	3558	3518	3445
65°	3138	3107	3048
70°	2570	2582	2528
75°	1947	2013	1996
80°	1411	1466	1443
85°	925	958	1022



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.5	3.3
10°-20°	375.4	9.6
20°-30°	585.2	15.0
30°-40°	725.3	18.6
40°-50°	759.0	19.4
50°-60°	661.4	16.9
60°-70°	443.1	11.3
70°-80°	192.1	4.9
80°-90°	37.0	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°	1089.1	27.9
0°-40°	1814.5	46.4
0°-60°	3234.9	82.8
0°-90°	3907.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3907.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1352	1352	1352	1352	1352	
5°	1350	1349	1348	1348	1349	129
15°	1328	1326	1328	1329	1331	375
25°	1263	1263	1270	1274	1276	582
35°	1150	1154	1165	1166	1165	719
45°	980	985	994	986	982	754
55°	748	748	745	737	731	666
65°	453	450	448	444	440	448
75°	172	175	178	176	176	190
85°	28	29	28	29	30	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1351.6	1351.6	1351.6	1351.6	1351.6
2.5°	1353.0	1350.6	1350.1	1350.1	1351.6
5°	1350.1	1348.7	1348.2	1347.8	1348.7
7.5°	1347.3	1345.3	1345.9	1344.8	1345.9
10°	1343.4	1341.5	1341.5	1341.5	1342.9
12.5°	1336.6	1335.2	1335.7	1336.6	1338.5
15°	1327.9	1325.9	1327.5	1328.9	1331.3
17.5°	1315.8	1314.4	1316.8	1319.3	1321.2
20°	1301.4	1299.9	1304.2	1307.7	1309.6
22.5°	1283.4	1283.1	1288.8	1292.7	1294.1
25°	1262.8	1263.1	1270.0	1273.8	1275.7
27.5°	1239.0	1240.0	1248.8	1252.1	1254.0
30°	1212.5	1214.9	1224.1	1226.9	1228.5
32.5°	1182.5	1186.0	1197.0	1198.9	1198.9
35°	1149.7	1154.0	1164.6	1166.0	1165.1
37.5°	1113.0	1117.8	1129.8	1127.9	1126.5
40°	1071.9	1077.2	1089.2	1085.4	1083.1
42.5°	1028.0	1033.2	1043.9	1038.1	1034.7
45°	979.7	985.0	993.7	985.5	981.6
47.5°	927.4	933.7	938.1	929.0	924.1
50°	872.4	874.4	878.7	868.1	862.7
52.5°	812.5	812.5	815.9	804.3	798.0
55°	748.3	747.7	744.9	736.7	730.9
57.5°	680.2	677.2	675.3	666.6	659.9
60°	607.2	602.9	600.4	593.2	587.8
62.5°	530.9	528.5	525.6	519.8	514.0
65°	452.6	450.2	448.2	444.0	439.6
67.5°	374.9	373.4	373.4	370.5	370.0
70°	300.0	300.9	301.4	301.4	295.1
72.5°	232.3	232.9	235.3	233.4	232.9
75°	172.0	174.9	177.8	176.3	176.3
77.5°	123.7	128.0	128.0	127.0	125.6
80°	83.6	85.5	86.9	86.4	85.5
82.5°	53.2	54.6	53.2	54.1	54.6
85°	27.5	29.4	28.5	29.0	30.4
87.5°	9.1	10.1	10.7	10.1	10.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)