

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: P738521

Luminaire Tested: **24PT-40-PW1-L840**

Issue Date: 2/8/2024



**Test Information**

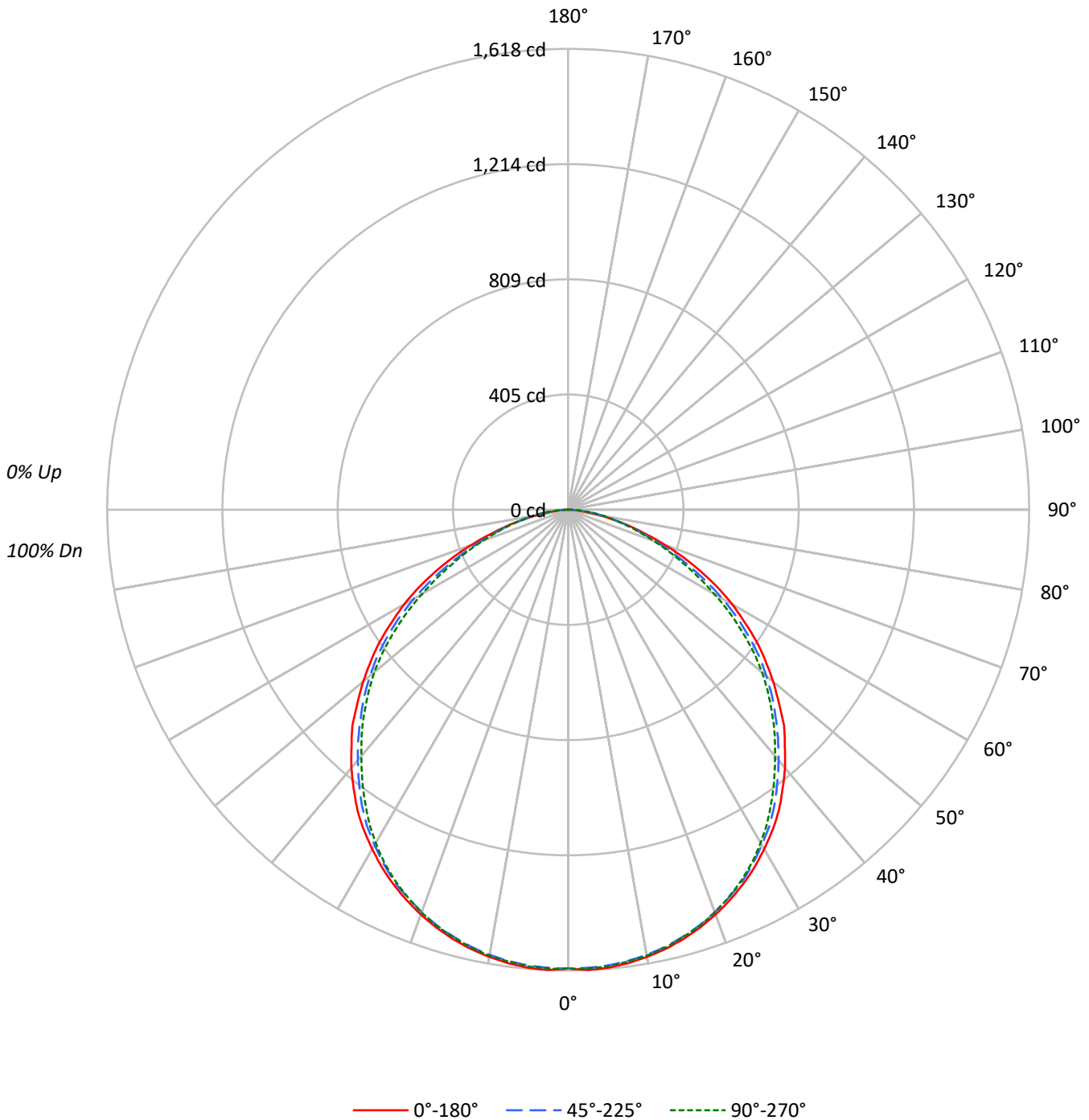
Test Method: LM-79-08  
Report Number: P738521  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2210-816-13)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/8/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 24PT-40-PW1-L840  
Description: 4000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 4000K, 80 CRI LEDS AND WAVES LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4296.0 lumens  
Efficiency: N/A  
Efficacy: 131.4 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 1.92' x L: 3.92' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 32.7  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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	95	98	95	92		94	92	90		91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77		83	79	75		80	77	74	71
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	71	63	56	68	61	56		66	60	55		64	58	54	52
5	77	64	56	49	75	63	55	49	61	54	48		59	53	48		57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42		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	61	48	40	34	60	47	39	34	46	39	34		45	38	33		44	38	33	31
9	57	44	36	31	56	44	36	31	42	35	30		41	35	30		40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	28		38	32	27		37	32	27	26

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2310	2310	2310
5°	2323	2312	2316
10°	2321	2310	2315
15°	2317	2305	2307
20°	2308	2294	2296
25°	2295	2282	2273
30°	2277	2251	2237
35°	2257	2211	2180
40°	2215	2150	2114
45°	2172	2087	2053
50°	2095	2024	1982
55°	2018	1932	1862
60°	1907	1790	1698
65°	1746	1595	1513
70°	1513	1383	1332
75°	1239	1192	1177
80°	904	1019	1050
85°	605	851	905



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	152.8	3.6
10°-20°	438.7	10.2
20°-30°	663.9	15.5
30°-40°	790.0	18.4
40°-50°	798.0	18.6
50°-60°	690.5	16.1
60°-70°	471.7	11.0
70°-80°	232.4	5.4
80°-90°	58.1	1.4
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°	1255.4	29.2
0°-40°	2045.4	47.6
0°-60°	3533.8	82.3
0°-90°	4296.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4296.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1611	1611	1611	1611	1611	
5°	1614	1608	1606	1605	1609	153
15°	1561	1556	1552	1552	1554	440
25°	1451	1445	1443	1437	1437	669
35°	1289	1279	1263	1249	1246	805
45°	1071	1053	1029	1018	1013	822
55°	807	796	773	756	745	719
65°	515	495	470	455	446	508
75°	224	217	215	214	212	239
85°	37	46	52	54	55	47
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1611.2	1611.2	1611.2	1611.2	1611.2
2.5°	1617.7	1611.6	1609.8	1608.4	1612.6
5°	1614.0	1607.9	1606.0	1604.6	1609.3
7.5°	1606.0	1600.0	1598.1	1596.7	1600.5
10°	1594.4	1588.8	1586.9	1585.5	1589.7
12.5°	1579.5	1574.4	1572.0	1570.2	1574.8
15°	1560.9	1555.7	1552.5	1551.5	1554.3
17.5°	1538.5	1533.4	1531.1	1529.7	1532.9
20°	1512.4	1506.8	1503.6	1501.7	1504.5
22.5°	1483.5	1478.0	1473.8	1471.9	1472.8
25°	1450.9	1445.3	1442.6	1437.0	1437.0
27.5°	1416.0	1409.5	1402.5	1396.4	1396.9
30°	1375.5	1368.0	1359.6	1351.7	1351.3
32.5°	1334.5	1325.2	1314.9	1304.2	1301.0
35°	1289.3	1278.6	1263.2	1249.2	1245.5
37.5°	1236.2	1226.4	1205.9	1194.3	1188.2
40°	1183.6	1169.6	1148.6	1135.1	1129.5
42.5°	1125.8	1112.3	1089.9	1077.4	1072.7
45°	1070.9	1052.7	1029.4	1017.8	1012.6
47.5°	1002.4	987.5	971.2	957.7	951.1
50°	939.0	926.9	907.4	892.5	888.3
52.5°	872.9	862.6	844.0	824.4	819.8
55°	807.2	796.0	772.7	756.4	744.8
57.5°	733.2	723.4	701.5	680.5	670.3
60°	665.1	648.4	624.2	601.3	592.0
62.5°	591.1	574.8	546.8	523.5	518.4
65°	514.7	495.1	470.0	454.6	445.8
67.5°	437.4	418.3	397.3	387.5	381.9
70°	361.0	345.6	329.8	322.8	317.7
72.5°	287.4	278.5	269.7	266.9	262.2
75°	223.6	217.1	215.2	213.8	212.4
77.5°	161.2	164.4	166.3	168.2	166.3
80°	109.5	116.4	123.4	127.2	127.2
82.5°	67.5	79.7	85.7	89.4	89.0
85°	36.8	45.6	51.7	53.6	55.0
87.5°	14.9	18.6	21.0	22.8	23.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)