

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: P738490

Luminaire Tested: **24PT-35-PW1-L850**

Issue Date: 2/8/2024



**Test Information**

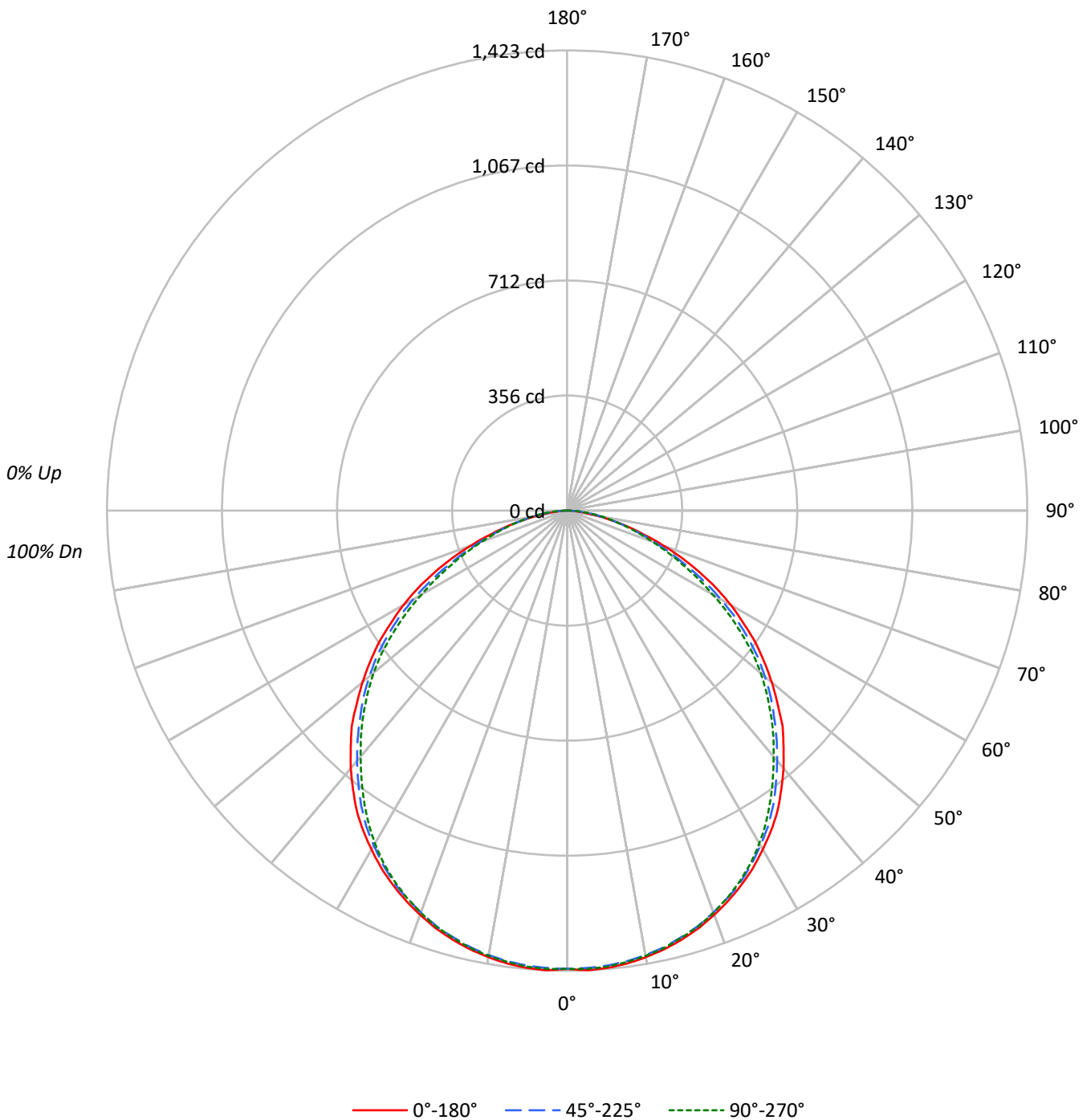
Test Method: LM-79-08  
Report Number: P738490  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2210-816-13)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/8/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 24PT-35-PW1-L850  
Description: 3500 LUMEN 2X4 PERCEIVE PT TROFFER WITH 5000K, 80 CRI LEDS AND WAVES LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3779.0 lumens  
Efficiency: N/A  
Efficacy: 134.0 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): 28.2  
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°	2032	2032	2032
5°	2043	2033	2038
10°	2042	2033	2036
15°	2038	2027	2030
20°	2030	2018	2019
25°	2019	2008	2000
30°	2003	1980	1968
35°	1985	1945	1918
40°	1949	1891	1860
45°	1910	1836	1806
50°	1843	1781	1743
55°	1775	1699	1638
60°	1678	1574	1494
65°	1536	1403	1330
70°	1331	1216	1171
75°	1090	1049	1035
80°	795	897	924
85°	533	749	795



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	134.4	3.6
10°-20°	385.9	10.2
20°-30°	584.0	15.5
30°-40°	694.9	18.4
40°-50°	701.9	18.6
50°-60°	607.4	16.1
60°-70°	414.9	11.0
70°-80°	204.5	5.4
80°-90°	51.1	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°	1104.3	29.2
0°-40°	1799.2	47.6
0°-60°	3108.5	82.3
0°-90°	3779.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3779.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1417	1417	1417	1417	1417	
5°	1420	1414	1413	1412	1416	135
15°	1373	1368	1366	1365	1367	387
25°	1276	1271	1269	1264	1264	588
35°	1134	1125	1111	1099	1096	708
45°	942	926	906	895	891	723
55°	710	700	680	665	655	632
65°	453	436	413	400	392	447
75°	197	191	189	188	187	210
85°	32	40	46	47	48	42
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1417.3	1417.3	1417.3	1417.3	1417.3
2.5°	1423.0	1417.7	1416.0	1414.8	1418.5
5°	1419.7	1414.4	1412.8	1411.5	1415.6
7.5°	1412.8	1407.4	1405.8	1404.6	1407.8
10°	1402.5	1397.6	1396.0	1394.7	1398.4
12.5°	1389.4	1384.9	1382.9	1381.2	1385.3
15°	1373.0	1368.5	1365.6	1364.8	1367.3
17.5°	1353.4	1348.8	1346.8	1345.6	1348.4
20°	1330.4	1325.5	1322.6	1321.0	1323.4
22.5°	1305.0	1300.1	1296.4	1294.8	1295.6
25°	1276.3	1271.4	1268.9	1264.0	1264.0
27.5°	1245.6	1239.9	1233.7	1228.4	1228.8
30°	1209.9	1203.4	1196.0	1189.0	1188.6
32.5°	1173.9	1165.7	1156.7	1147.3	1144.4
35°	1134.1	1124.7	1111.2	1098.9	1095.6
37.5°	1087.4	1078.8	1060.8	1050.6	1045.2
40°	1041.1	1028.8	1010.4	998.5	993.6
42.5°	990.3	978.4	958.8	947.7	943.6
45°	942.0	926.0	905.5	895.3	890.8
47.5°	881.7	868.6	854.3	842.4	836.7
50°	826.0	815.4	798.2	785.1	781.4
52.5°	767.8	758.8	742.4	725.2	721.1
55°	710.1	700.2	679.7	665.4	655.2
57.5°	644.9	636.3	617.1	598.6	589.6
60°	585.1	570.4	549.0	529.0	520.8
62.5°	520.0	505.6	481.0	460.5	456.0
65°	452.8	435.5	413.4	399.9	392.1
67.5°	384.7	367.9	349.5	340.9	336.0
70°	317.5	304.0	290.1	283.9	279.4
72.5°	252.8	245.0	237.2	234.8	230.7
75°	196.7	190.9	189.3	188.1	186.8
77.5°	141.8	144.6	146.3	147.9	146.3
80°	96.3	102.4	108.6	111.9	111.9
82.5°	59.4	70.1	75.4	78.7	78.3
85°	32.4	40.2	45.5	47.1	48.3
87.5°	13.1	16.4	18.4	20.1	20.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)