

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: P738473

Luminaire Tested: **24PT-35-PL1-L840**

Issue Date: 2/8/2024



**Test Information**

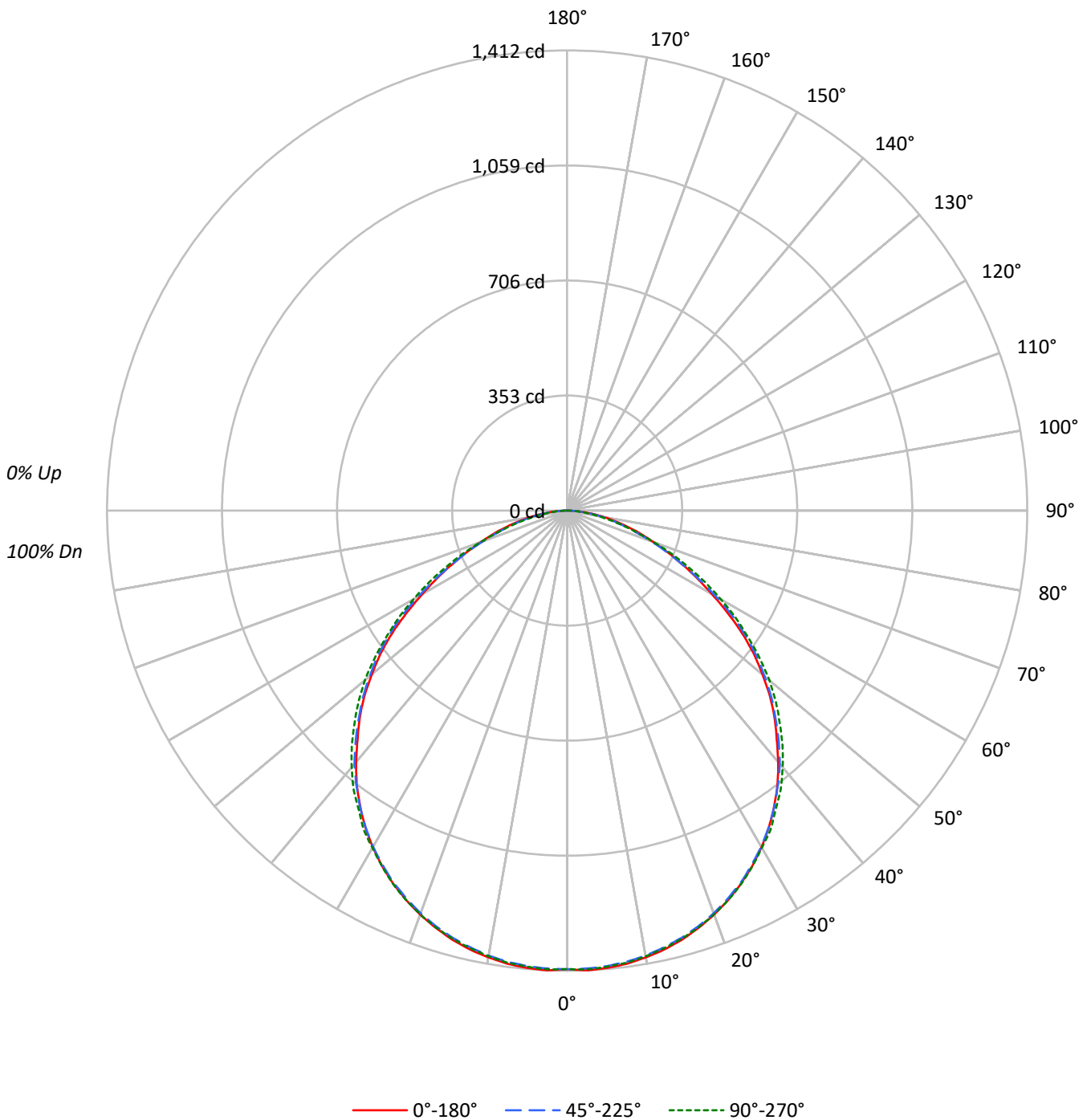
Test Method: LM-79-08  
Report Number: P738473  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2210-816-14)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/8/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 24PT-35-PL1-L840  
Description: 3500 LUMEN 2X4 PERCEIVE PT TROFFER WITH 4000K, 80 CRI LEDS AND LEAVES LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3725.0 lumens  
Efficiency: N/A  
Efficacy: 132.1 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 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	96	98	95	93	95	92	90	91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77	83	79	76	80	77	74	72
3	91	81	73	67	89	80	72	67	77	70	65	74	69	64	71	67	63	61
4	84	72	64	57	82	71	63	57	68	62	56	66	60	55	64	59	55	52
5	77	65	56	49	75	64	55	49	61	54	49	60	53	48	58	52	48	46
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	47	42	40
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	32
9	58	44	36	31	56	44	36	31	43	36	31	42	35	30	41	35	30	29
10	54	41	33	28	53	40	33	28	40	33	28	39	32	28	38	32	28	26

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

	0°	45°	90°
0°	2018	2018	2018
5°	2028	2019	2022
10°	2027	2018	2022
15°	2023	2015	2019
20°	2013	2007	2012
25°	1998	1993	2000
30°	1974	1972	1978
35°	1939	1939	1954
40°	1885	1900	1925
45°	1827	1835	1871
50°	1745	1765	1807
55°	1638	1668	1694
60°	1471	1507	1563
65°	1316	1319	1390
70°	1173	1141	1182
75°	1060	997	979
80°	942	879	775
85°	772	732	605



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	133.5	3.6
10°-20°	383.3	10.3
20°-30°	580.7	15.6
30°-40°	694.0	18.6
40°-50°	700.0	18.8
50°-60°	593.9	15.9
60°-70°	393.0	10.5
70°-80°	195.0	5.2
80°-90°	51.6	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°	1097.5	29.5
0°-40°	1791.4	48.1
0°-60°	3085.4	82.8
0°-90°	3725.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3725.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1407	1407	1407	1407	1407	
5°	1409	1404	1403	1402	1405	134
15°	1363	1358	1357	1357	1360	384
25°	1263	1260	1260	1260	1264	582
35°	1108	1106	1108	1114	1116	692
45°	901	900	905	917	923	693
55°	655	657	667	674	678	583
65°	388	387	389	401	410	387
75°	191	186	180	174	177	205
85°	47	47	44	41	37	56
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1407.3	1407.3	1407.3	1407.3	1407.3
2.5°	1412.1	1407.7	1406.5	1405.7	1408.9
5°	1408.9	1404.1	1402.8	1402.0	1404.9
7.5°	1402.4	1397.2	1396.4	1395.6	1399.2
10°	1391.9	1387.1	1386.3	1385.4	1388.7
12.5°	1379.4	1374.5	1372.9	1373.3	1375.3
15°	1362.8	1358.3	1357.1	1357.1	1360.0
17.5°	1342.2	1338.1	1337.3	1336.9	1340.5
20°	1319.1	1315.1	1315.1	1316.3	1318.3
22.5°	1292.8	1290.0	1288.4	1289.2	1293.2
25°	1262.9	1260.0	1260.0	1259.6	1264.1
27.5°	1229.7	1226.1	1226.1	1229.3	1230.9
30°	1192.5	1189.3	1190.9	1193.3	1194.9
32.5°	1152.4	1150.4	1151.6	1155.3	1161.8
35°	1107.5	1105.9	1108.0	1114.0	1116.4
37.5°	1060.6	1059.4	1062.2	1070.3	1077.2
40°	1007.2	1007.2	1014.9	1022.2	1028.7
42.5°	951.8	955.5	961.1	972.4	978.1
45°	900.8	899.6	904.9	917.0	922.7
47.5°	844.2	843.0	850.7	859.2	868.5
50°	782.3	781.9	791.2	798.5	810.2
52.5°	722.0	725.7	731.8	738.2	745.1
55°	655.3	656.9	667.4	673.5	677.6
57.5°	583.3	588.6	601.5	610.4	614.0
60°	512.9	516.2	525.5	541.2	544.9
62.5°	449.0	450.2	455.9	473.7	478.5
65°	387.9	387.1	388.7	400.9	409.8
67.5°	332.5	329.3	329.3	335.7	346.7
70°	279.9	275.1	272.2	274.3	281.9
72.5°	235.8	229.4	222.1	220.9	225.7
75°	191.3	186.1	180.0	174.3	176.8
77.5°	152.5	148.1	142.4	135.9	132.7
80°	114.1	112.5	106.4	100.3	93.8
82.5°	79.7	78.5	74.4	69.6	65.5
85°	46.9	46.9	44.5	40.9	36.8
87.5°	21.0	20.2	21.0	17.8	16.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)