

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: P737831

Luminaire Tested: **14PT-40-PR1-L830**

Issue Date: 2/8/2024



**Test Information**

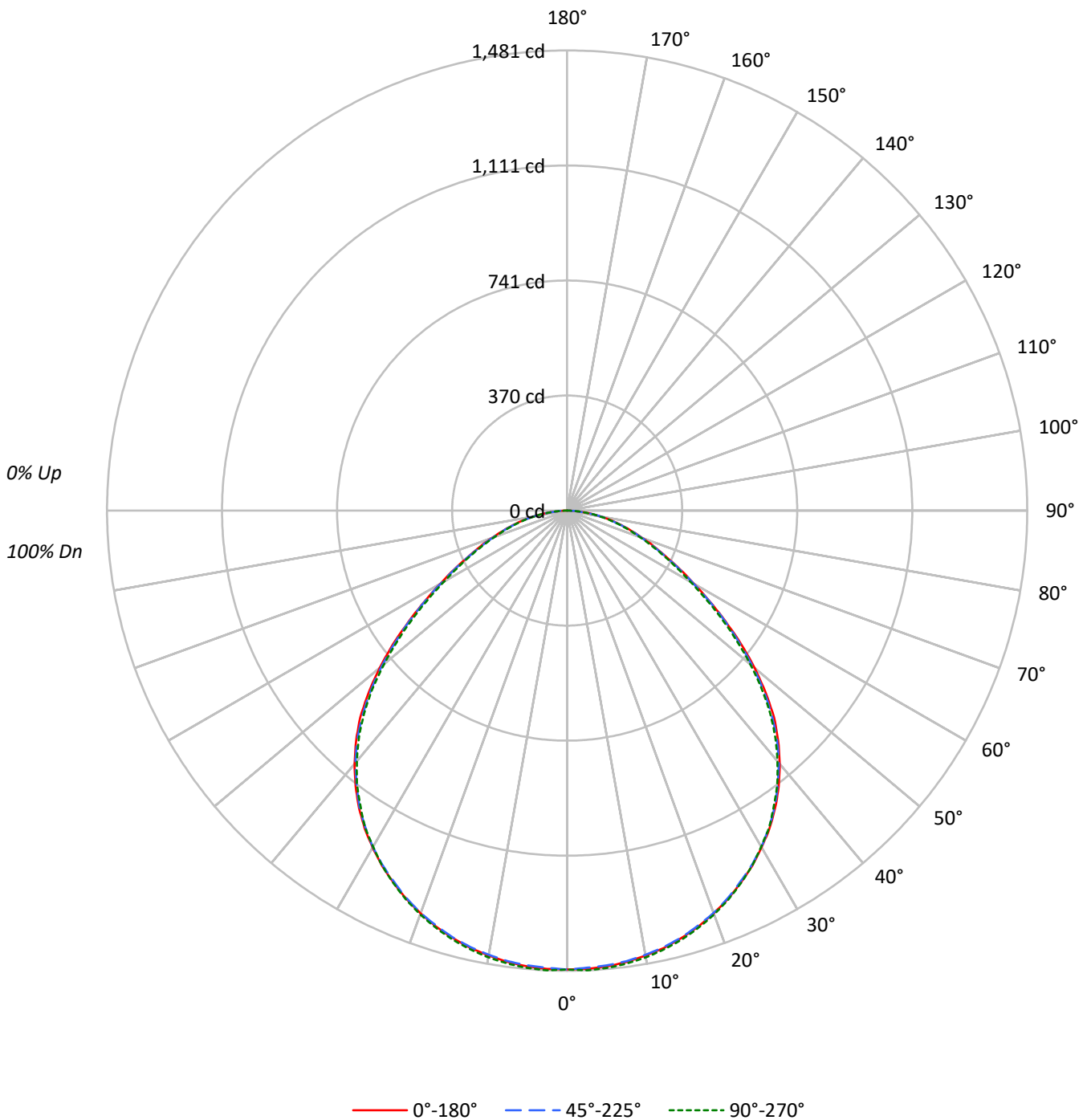
Test Method: LM-79-08  
Report Number: P737831  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2211-846-11)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/8/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 14PT-40-PR1-L830  
Description: 4000 LUMEN 1X4 PERCEIVE PT TROFFER WITH 3000K, 80 CRI LEDS AND RIPLE LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3735.0 lumens  
Efficiency: N/A  
Efficacy: 116.4 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.34  
Luminous Opening: Rectangular (W 0.92' x L: 3.92' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 32.1  
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	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					100			
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	88					85				
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75					73				
3	92	82	74	68	90	80	73	68	78	71	66	75	70	65	72	68	64					62				
4	85	73	65	58	82	72	64	58	69	63	57	67	61	56	65	60	56					54				
5	78	66	57	51	76	65	56	50	62	55	50	61	54	49	59	53	49					47				
6	72	59	51	45	70	58	50	44	57	49	44	55	49	44	53	48	43					41				
7	67	54	45	40	65	53	45	39	52	44	39	50	44	39	49	43	39					37				
8	62	49	41	35	61	49	41	35	47	40	35	46	40	35	45	39	35					33				
9	58	45	37	32	57	45	37	32	44	37	32	43	36	32	42	36	31					30				
10	55	42	34	29	54	41	34	29	40	34	29	39	33	29	39	33	29					27				

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

	0°	45°	90°
0°	4428	4428	4428
5°	4432	4422	4446
10°	4428	4420	4444
15°	4420	4413	4434
20°	4401	4396	4413
25°	4373	4362	4378
30°	4334	4328	4323
35°	4274	4264	4247
40°	4166	4150	4121
45°	3993	3948	3919
50°	3674	3632	3587
55°	3251	3237	3174
60°	2825	2815	2739
65°	2490	2474	2426
70°	2260	2227	2181
75°	2091	2042	2005
80°	1910	1882	1818
85°	1510	1493	1438



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	140.1	3.8
10°-20°	402.1	10.8
20°-30°	609.2	16.3
30°-40°	727.2	19.5
40°-50°	715.2	19.1
50°-60°	552.7	14.8
60°-70°	348.5	9.3
70°-80°	188.5	5.0
80°-90°	51.5	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°	1151.3	30.8
0°-40°	1878.5	50.3
0°-60°	3146.4	84.2
0°-90°	3735.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3735.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1477	1477	1477	1477	1477	
5°	1473	1473	1470	1476	1477	140
15°	1424	1424	1422	1427	1429	402
25°	1322	1323	1319	1323	1323	609
35°	1168	1168	1165	1164	1160	729
45°	942	938	931	924	924	721
55°	622	627	619	609	607	558
65°	351	352	349	343	342	353
75°	180	178	176	177	173	192
85°	44	44	43	44	42	52
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1476.9	1476.9	1476.9	1476.9	1476.9
2.5°	1476.3	1476.9	1472.6	1479.5	1481.1
5°	1472.6	1473.2	1469.5	1475.8	1477.4
7.5°	1465.2	1466.3	1462.6	1468.9	1470.5
10°	1454.6	1455.7	1452.0	1458.3	1459.9
12.5°	1441.4	1441.9	1438.8	1444.6	1446.2
15°	1423.9	1424.5	1421.8	1426.6	1428.7
17.5°	1403.8	1404.3	1400.6	1406.5	1407.5
20°	1379.5	1380.0	1377.9	1382.6	1383.2
22.5°	1352.5	1353.5	1350.4	1354.6	1355.1
25°	1321.8	1322.8	1318.6	1322.8	1323.4
27.5°	1289.5	1290.0	1286.3	1289.5	1289.0
30°	1251.9	1255.1	1250.3	1249.3	1248.7
32.5°	1212.7	1213.3	1208.5	1207.4	1209.6
35°	1167.7	1168.3	1165.1	1163.5	1160.3
37.5°	1118.5	1118.5	1112.7	1111.6	1111.1
40°	1064.5	1064.0	1060.3	1056.6	1052.9
42.5°	1005.8	1006.8	999.4	993.0	992.0
45°	941.7	938.0	931.1	923.7	924.2
47.5°	866.0	867.1	857.5	851.7	850.1
50°	787.7	787.7	778.7	772.3	769.1
52.5°	705.6	706.1	697.7	689.2	687.6
55°	622.0	627.3	619.3	609.3	607.2
57.5°	543.6	547.9	540.5	529.9	529.3
60°	471.1	471.6	469.5	459.5	456.8
62.5°	409.2	406.5	405.5	400.2	397.0
65°	351.0	351.5	348.8	343.0	342.0
67.5°	303.8	303.3	298.6	294.8	292.7
70°	257.8	256.2	254.1	250.9	248.8
72.5°	216.5	216.5	214.9	213.9	210.1
75°	180.5	178.4	176.3	177.3	173.1
77.5°	146.1	144.0	142.4	140.3	139.2
80°	110.6	108.5	109.0	105.9	105.3
82.5°	76.8	76.8	75.7	73.0	73.6
85°	43.9	44.5	43.4	43.9	41.8
87.5°	15.9	16.4	17.5	16.4	16.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)