

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: P738402

Luminaire Tested: **24PT-20-PC3-L850**

Issue Date: 2/8/2024



**Test Information**

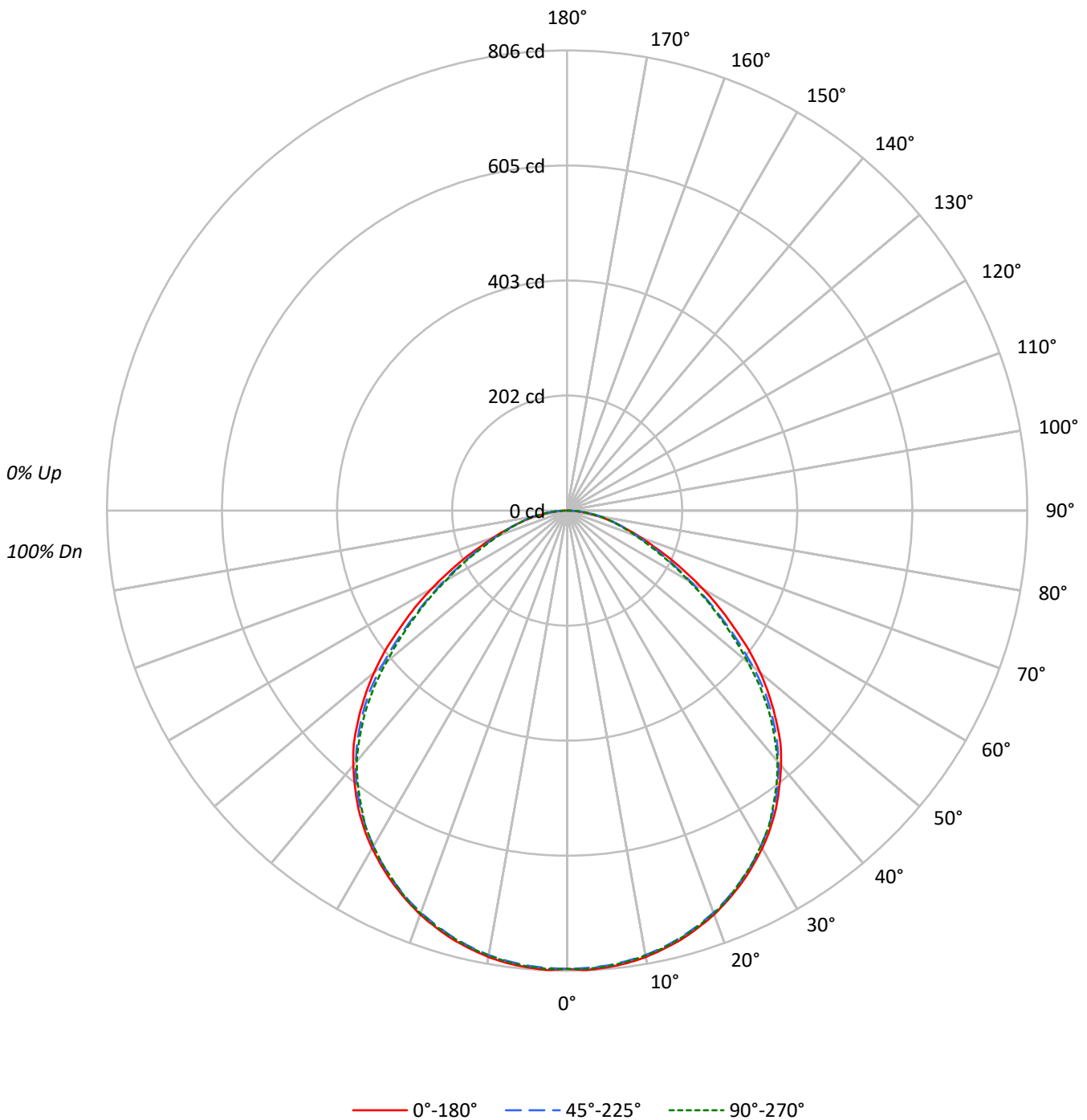
Test Method: LM-79-08  
Report Number: P738402  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2210-816-10)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/8/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 24PT-20-PC3-L850  
Description: 2000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 5000K, 80 CRI LEDS AND PARAMID LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2025.0 lumens  
Efficiency: N/A  
Efficacy: 134.1 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.25 / 1.35  
Luminous Opening: Rectangular (W 1.92' x L: 3.92' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 15.1  
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

TEST NUMBER: P738402  
CATALOG NUMBER: 24PT-20-PC3-L850

### 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	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	88	86
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	81	73	68	78	72	67	75	70	65	72	68	64	62
4	85	73	65	59	82	72	64	58	69	63	57	67	61	57	65	60	56	54
5	78	66	57	51	76	65	57	51	63	55	50	61	54	50	59	53	49	47
6	72	59	51	45	70	59	50	44	57	50	44	55	49	44	54	48	43	41
7	67	54	46	40	65	53	45	40	52	45	39	50	44	39	49	43	39	37
8	63	49	41	36	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	40	33	29	39	33	29	27

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

	0°	45°	90°
0°	1151	1151	1151
5°	1156	1151	1154
10°	1156	1151	1153
15°	1154	1148	1150
20°	1149	1143	1146
25°	1141	1135	1135
30°	1131	1124	1124
35°	1116	1107	1102
40°	1091	1078	1073
45°	1049	1029	1015
50°	985	947	922
55°	890	830	814
60°	787	718	704
65°	673	622	606
70°	571	546	530
75°	500	509	491
80°	448	495	467
85°	378	452	429



TEST NUMBER: P738402

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	76.1	3.8
10°-20°	218.5	10.8
20°-30°	331.0	16.3
30°-40°	395.3	19.5
40°-50°	390.0	19.3
50°-60°	301.9	14.9
60°-70°	185.6	9.2
70°-80°	97.2	4.8
80°-90°	29.5	1.5
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°	625.6	30.9
0°-40°	1020.9	50.4
0°-60°	1712.7	84.6
0°-90°	2025.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2025.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	803	803	803	803	803	
5°	803	801	800	799	802	76
15°	777	775	774	773	774	219
25°	721	719	718	717	717	332
35°	638	635	632	630	630	398
45°	517	513	508	502	500	398
55°	356	346	332	327	326	320
65°	198	189	183	178	179	198
75°	90	91	92	90	89	97
85°	23	26	28	27	26	27
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	802.8	802.8	802.8	802.8	802.8
2.5°	805.5	803.0	801.9	801.7	803.5
5°	803.2	800.8	799.9	799.4	801.5
7.5°	799.7	797.0	796.1	795.4	797.2
10°	794.1	791.4	790.5	790.1	791.6
12.5°	786.0	783.6	782.9	782.2	784.2
15°	777.1	774.6	773.5	772.9	774.4
17.5°	765.5	763.5	762.1	762.1	763.5
20°	753.0	750.5	749.4	748.7	751.0
22.5°	737.6	736.0	734.6	733.5	736.0
25°	721.2	719.0	717.7	717.2	717.4
27.5°	702.7	701.1	699.3	698.7	699.1
30°	683.3	681.2	678.8	677.4	678.6
32.5°	661.6	658.7	656.7	655.3	656.9
35°	637.7	634.8	632.5	630.5	629.6
37.5°	610.4	609.5	606.4	602.8	602.6
40°	582.9	580.5	576.0	574.4	573.3
42.5°	553.4	548.3	543.6	539.1	537.6
45°	517.2	513.4	507.6	502.3	500.5
47.5°	480.2	475.2	469.7	460.3	459.2
50°	441.5	434.4	424.5	416.7	413.4
52.5°	401.3	391.7	378.0	371.3	369.6
55°	356.2	346.5	332.0	327.1	325.8
57.5°	315.9	301.9	290.0	284.4	286.2
60°	274.6	261.0	250.5	245.1	245.6
62.5°	234.2	223.4	215.6	210.5	211.1
65°	198.4	189.2	183.4	178.1	178.7
67.5°	163.3	159.1	154.8	151.7	149.9
70°	136.1	134.3	130.3	127.4	126.5
72.5°	111.3	112.4	109.0	108.1	107.9
75°	90.3	91.2	91.8	90.0	88.7
77.5°	72.2	73.5	76.2	73.7	73.3
80°	54.3	57.0	59.9	58.3	56.5
82.5°	38.0	41.3	44.0	42.0	41.1
85°	23.0	25.7	27.5	26.8	26.1
87.5°	10.3	11.2	12.1	12.3	11.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)