

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: P738426

Luminaire Tested: **24PT-20-PW1-L850**

Issue Date: 2/8/2024



Test Information

Test Method: LM-79-08
Report Number: P738426
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-20-PW1-L850
Description: 2000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 5000K, 80 CRI LEDS AND WAVES LENS

Light Source: -
Ballast/Driver: -

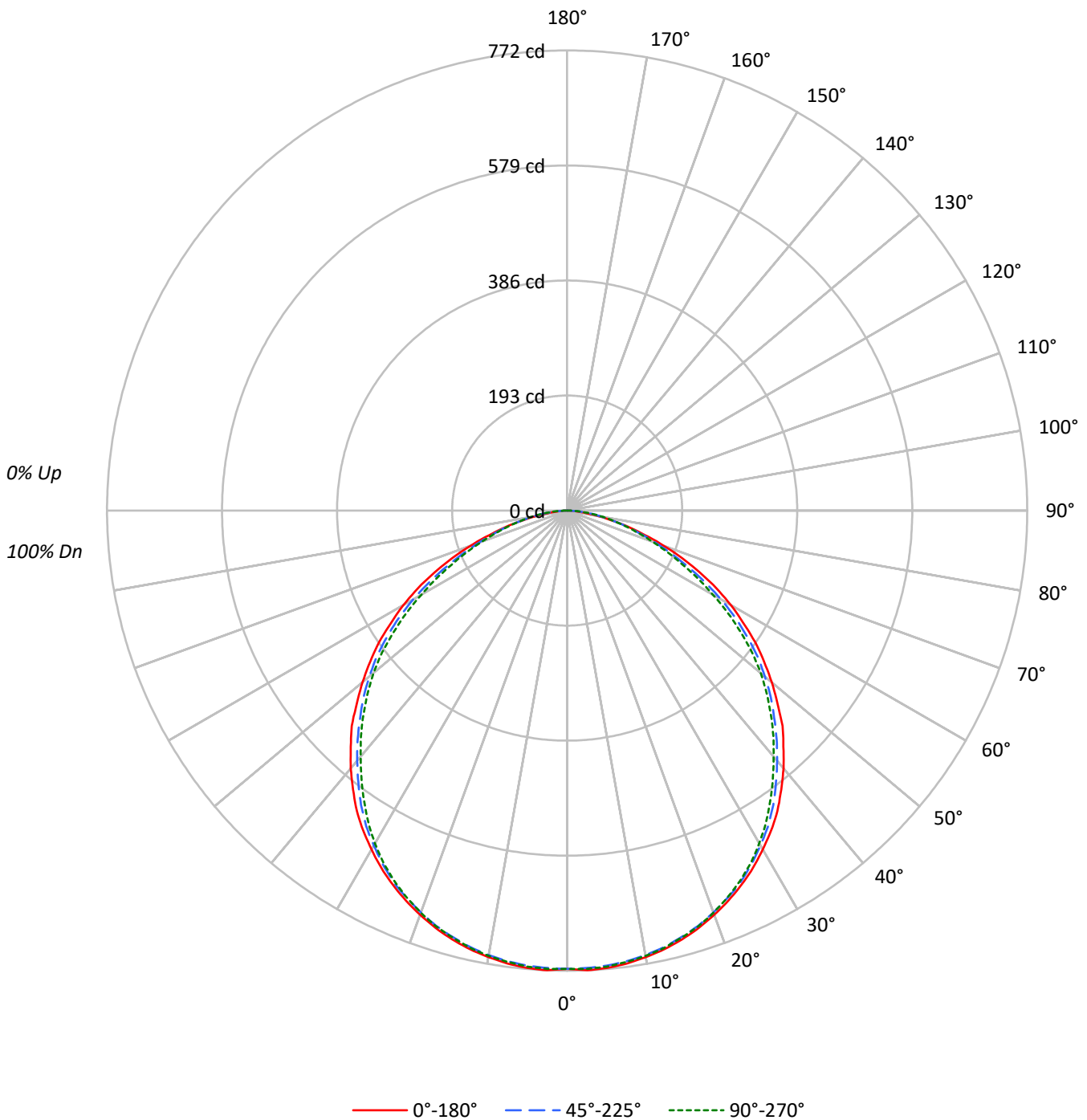
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2050.0 lumens
Efficiency: N/A
Efficacy: 135.8 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): 15.1
Input Voltage (V): NR
Input Current (A_{in}): 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°	1102	1102	1102
5°	1109	1103	1105
10°	1108	1103	1105
15°	1106	1100	1101
20°	1101	1095	1095
25°	1095	1089	1085
30°	1087	1074	1068
35°	1077	1055	1040
40°	1057	1026	1009
45°	1036	996	980
50°	1000	966	946
55°	963	922	888
60°	910	854	810
65°	833	761	722
70°	722	660	636
75°	591	569	562
80°	431	486	501
85°	290	406	431



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.9	3.6
10°-20°	209.3	10.2
20°-30°	316.8	15.5
30°-40°	377.0	18.4
40°-50°	380.8	18.6
50°-60°	329.5	16.1
60°-70°	225.1	11.0
70°-80°	110.9	5.4
80°-90°	27.7	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°	599.1	29.2
0°-40°	976.0	47.6
0°-60°	1686.3	82.3
0°-90°	2050.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2050.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	769	769	769	769	769	
5°	770	767	766	766	768	73
15°	745	742	741	740	742	210
25°	692	690	688	686	686	319
35°	615	610	603	596	594	384
45°	511	502	491	486	483	392
55°	385	380	369	361	355	343
65°	246	236	224	217	213	243
75°	107	104	103	102	101	114
85°	18	22	25	26	26	23
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	768.8	768.8	768.8	768.8	768.8
2.5°	771.9	769.1	768.2	767.5	769.5
5°	770.2	767.3	766.4	765.7	767.9
7.5°	766.4	763.5	762.6	761.9	763.7
10°	760.8	758.2	757.3	756.6	758.6
12.5°	753.7	751.3	750.2	749.3	751.5
15°	744.8	742.4	740.8	740.4	741.7
17.5°	734.2	731.7	730.6	729.9	731.5
20°	721.7	719.0	717.5	716.6	717.9
22.5°	707.9	705.3	703.3	702.4	702.8
25°	692.4	689.7	688.4	685.7	685.7
27.5°	675.7	672.6	669.3	666.4	666.6
30°	656.4	652.8	648.8	645.0	644.8
32.5°	636.8	632.4	627.5	622.4	620.8
35°	615.2	610.1	602.8	596.1	594.3
37.5°	589.9	585.2	575.5	569.9	567.0
40°	564.8	558.1	548.1	541.7	539.0
42.5°	537.2	530.8	520.1	514.1	511.9
45°	511.0	502.3	491.2	485.7	483.2
47.5°	478.3	471.2	463.4	457.0	453.9
50°	448.1	442.3	433.0	425.9	423.9
52.5°	416.5	411.6	402.8	393.4	391.2
55°	385.2	379.9	368.7	361.0	355.4
57.5°	349.9	345.2	334.7	324.7	319.8
60°	317.4	309.4	297.8	286.9	282.5
62.5°	282.1	274.3	260.9	249.8	247.4
65°	245.6	236.3	224.3	216.9	212.7
67.5°	208.7	199.6	189.6	184.9	182.3
70°	172.3	164.9	157.4	154.0	151.6
72.5°	137.1	132.9	128.7	127.4	125.1
75°	106.7	103.6	102.7	102.0	101.4
77.5°	76.9	78.5	79.4	80.2	79.4
80°	52.2	55.6	58.9	60.7	60.7
82.5°	32.2	38.0	40.9	42.7	42.5
85°	17.6	21.8	24.7	25.6	26.2
87.5°	7.1	8.9	10.0	10.9	11.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)