

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: P738425

Luminaire Tested: **24PT-20-PW1-L840**

Issue Date: 2/8/2024



**Test Information**

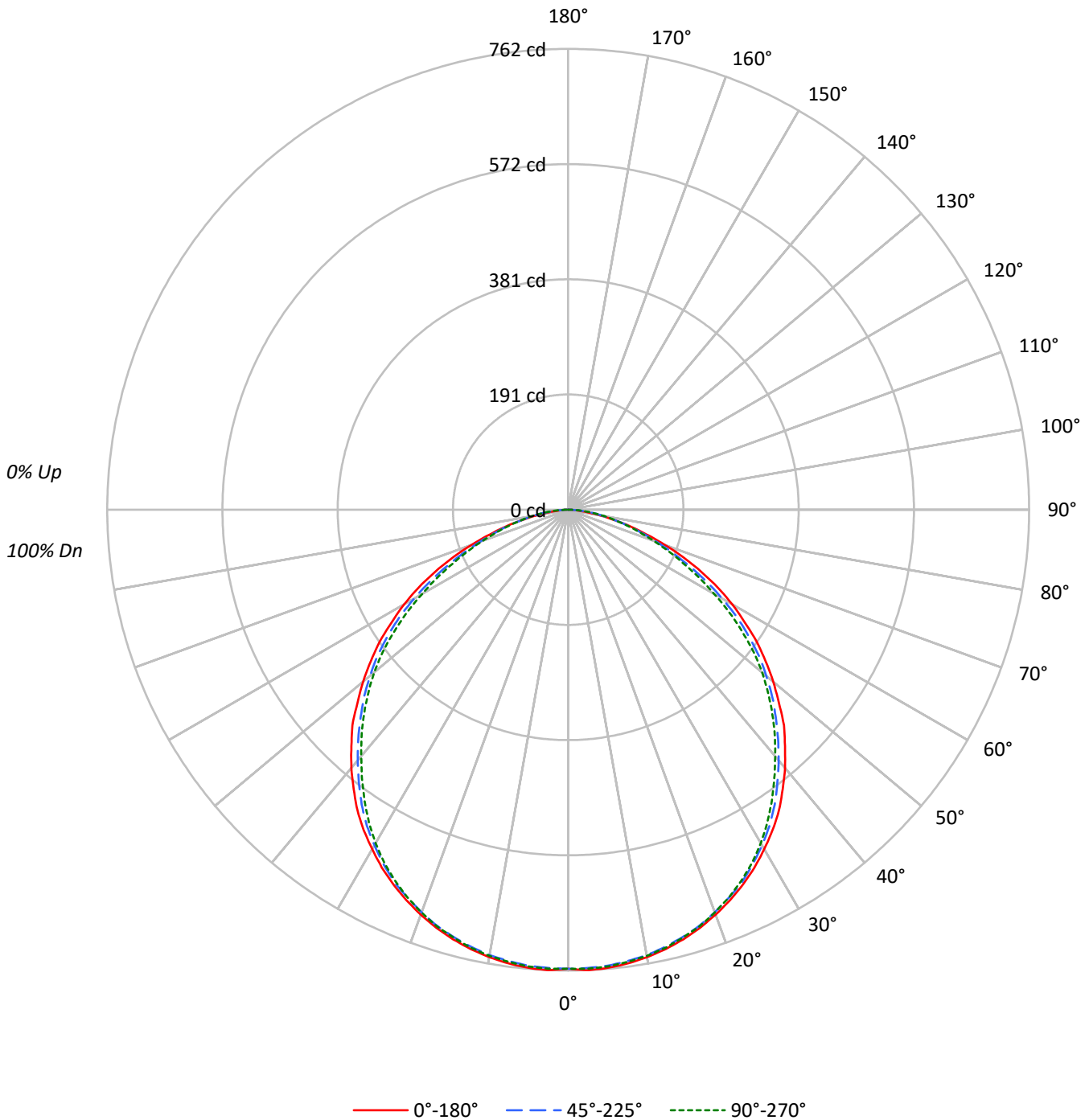
Test Method: LM-79-08  
Report Number: P738425  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2210-816-13)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/8/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 24PT-20-PW1-L840  
Description: 2000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 4000K, 80 CRI LEDS AND WAVES LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2024.0 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): 15.1  
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

TEST NUMBER: P738425  
CATALOG NUMBER: 24PT-20-PW1-L840

### Luminous Intensity Polar Plot





TEST NUMBER: P738425

CATALOG NUMBER: 24PT-20-PW1-L840

**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°	1088	1088	1088
5°	1094	1089	1091
10°	1094	1089	1091
15°	1092	1086	1087
20°	1087	1081	1082
25°	1082	1075	1071
30°	1073	1061	1054
35°	1063	1042	1027
40°	1044	1013	996
45°	1023	983	967
50°	987	954	934
55°	951	910	877
60°	899	843	800
65°	823	751	712
70°	713	651	628
75°	583	562	555
80°	426	481	495
85°	285	401	426



TEST NUMBER: P738425

CATALOG NUMBER: 24PT-20-PW1-L840

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	72.0	3.6
10°-20°	206.7	10.2
20°-30°	312.8	15.5
30°-40°	372.2	18.4
40°-50°	375.9	18.6
50°-60°	325.3	16.1
60°-70°	222.2	11.0
70°-80°	109.5	5.4
80°-90°	27.4	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°	591.5	29.2
0°-40°	963.6	47.6
0°-60°	1664.9	82.3
0°-90°	2024.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2024.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	759	759	759	759	759	
5°	760	758	757	756	758	72
15°	735	733	731	731	732	208
25°	684	681	680	677	677	315
35°	607	602	595	589	587	379
45°	504	496	485	480	477	387
55°	380	375	364	356	351	339
65°	242	233	221	214	210	240
75°	105	102	101	101	100	113
85°	17	22	24	25	26	22
90°	0	0	0	0	0	



TEST NUMBER: P738425

CATALOG NUMBER: 24PT-20-PW1-L840

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	759.1	759.1	759.1	759.1	759.1
2.5°	762.2	759.3	758.4	757.8	759.7
5°	760.4	757.5	756.7	756.0	758.2
7.5°	756.7	753.8	752.9	752.3	754.0
10°	751.2	748.5	747.7	747.0	749.0
12.5°	744.2	741.7	740.6	739.8	742.0
15°	735.4	733.0	731.4	731.0	732.3
17.5°	724.8	722.4	721.3	720.7	722.2
20°	712.6	709.9	708.4	707.5	708.8
22.5°	698.9	696.3	694.3	693.5	693.9
25°	683.6	681.0	679.6	677.0	677.0
27.5°	667.1	664.1	660.8	657.9	658.1
30°	648.0	644.5	640.6	636.8	636.6
32.5°	628.7	624.3	619.5	614.5	612.9
35°	607.4	602.4	595.1	588.6	586.8
37.5°	582.4	577.8	568.2	562.7	559.8
40°	557.6	551.0	541.2	534.8	532.2
42.5°	530.4	524.0	513.5	507.6	505.4
45°	504.5	496.0	485.0	479.5	477.1
47.5°	472.3	465.2	457.6	451.2	448.1
50°	442.4	436.7	427.5	420.5	418.5
52.5°	411.2	406.4	397.6	388.4	386.2
55°	380.3	375.0	364.1	356.4	350.9
57.5°	345.4	340.8	330.5	320.6	315.8
60°	313.4	305.5	294.1	283.3	278.9
62.5°	278.5	270.8	257.6	246.7	244.2
65°	242.5	233.3	221.4	214.2	210.0
67.5°	206.1	197.1	187.2	182.6	179.9
70°	170.1	162.8	155.4	152.1	149.7
72.5°	135.4	131.2	127.1	125.7	123.6
75°	105.3	102.3	101.4	100.7	100.1
77.5°	75.9	77.5	78.3	79.2	78.3
80°	51.6	54.9	58.2	59.9	59.9
82.5°	31.8	37.5	40.4	42.1	41.9
85°	17.3	21.5	24.4	25.2	25.9
87.5°	7.0	8.8	9.9	10.8	11.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)