

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: P738409

Luminaire Tested: **24PT-20-PL1-L840**

Issue Date: 2/8/2024



Test Information

Test Method: LM-79-08
Report Number: P738409
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-20-PL1-L840
Description: 2000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 4000K, 80 CRI LEDS AND LEAVES LENS

Light Source: -
Ballast/Driver: -

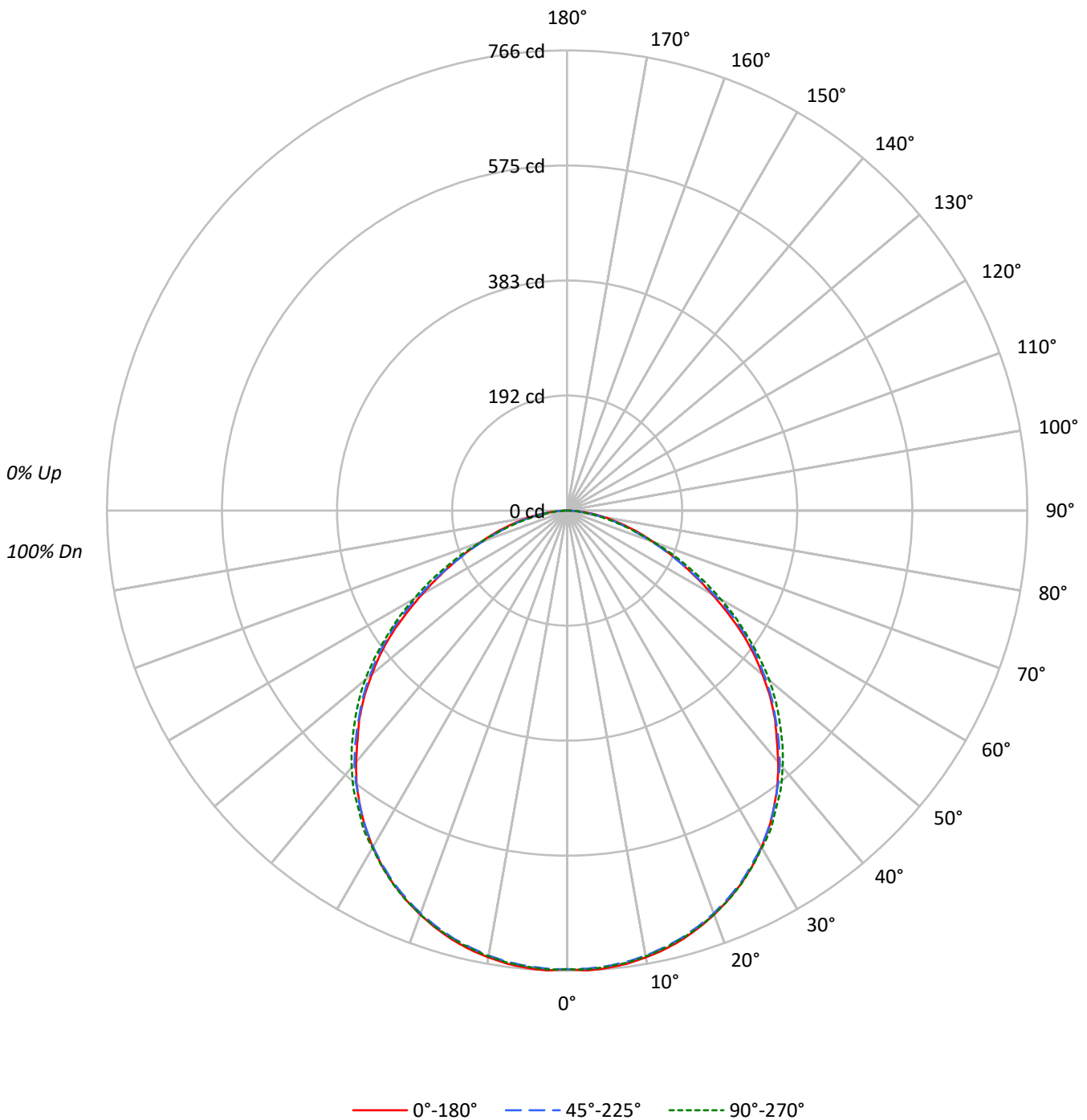
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2021.0 lumens
Efficiency: N/A
Efficacy: 133.8 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): 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: P738409
CATALOG NUMBER: 24PT-20-PL1-L840

Luminous Intensity Polar Plot





TEST NUMBER: P738409

CATALOG NUMBER: 24PT-20-PL1-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	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°	1095	1095	1095
5°	1100	1095	1097
10°	1100	1095	1097
15°	1098	1093	1095
20°	1092	1089	1091
25°	1084	1082	1085
30°	1071	1070	1073
35°	1052	1052	1060
40°	1023	1031	1045
45°	991	995	1015
50°	947	958	981
55°	889	905	919
60°	798	818	848
65°	714	716	754
70°	637	619	641
75°	575	541	531
80°	511	476	420
85°	420	396	329



TEST NUMBER: P738409

CATALOG NUMBER: 24PT-20-PL1-L840

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.4	3.6
10°-20°	208.0	10.3
20°-30°	315.1	15.6
30°-40°	376.5	18.6
40°-50°	379.8	18.8
50°-60°	322.2	15.9
60°-70°	213.2	10.5
70°-80°	105.8	5.2
80°-90°	28.0	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°	595.4	29.5
0°-40°	971.9	48.1
0°-60°	1674.0	82.8
0°-90°	2021.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2021.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	764	764	764	764	764	
5°	764	762	761	761	762	73
15°	739	737	736	736	738	209
25°	685	684	684	683	686	316
35°	601	600	601	604	606	375
45°	489	488	491	498	501	376
55°	356	356	362	365	368	316
65°	210	210	211	218	222	210
75°	104	101	98	95	96	111
85°	26	26	24	22	20	30
90°	0	0	0	0	0	



TEST NUMBER: P738409

CATALOG NUMBER: 24PT-20-PL1-L840

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	763.5	763.5	763.5	763.5	763.5
2.5°	766.2	763.7	763.1	762.6	764.4
5°	764.4	761.8	761.1	760.7	762.2
7.5°	760.9	758.0	757.6	757.2	759.1
10°	755.2	752.6	752.1	751.7	753.4
12.5°	748.4	745.7	744.9	745.1	746.2
15°	739.4	737.0	736.3	736.3	737.8
17.5°	728.2	726.0	725.6	725.3	727.3
20°	715.7	713.5	713.5	714.1	715.2
22.5°	701.4	699.9	699.0	699.4	701.6
25°	685.2	683.6	683.6	683.4	685.8
27.5°	667.2	665.2	665.2	667.0	667.8
30°	647.0	645.2	646.1	647.4	648.3
32.5°	625.3	624.2	624.8	626.8	630.3
35°	600.9	600.0	601.1	604.4	605.7
37.5°	575.4	574.8	576.3	580.7	584.4
40°	546.5	546.5	550.6	554.6	558.1
42.5°	516.4	518.4	521.5	527.6	530.7
45°	488.8	488.1	490.9	497.5	500.6
47.5°	458.0	457.4	461.5	466.1	471.2
50°	424.4	424.2	429.3	433.2	439.6
52.5°	391.7	393.7	397.0	400.5	404.3
55°	355.5	356.4	362.1	365.4	367.6
57.5°	316.5	319.3	326.3	331.2	333.2
60°	278.3	280.0	285.1	293.6	295.6
62.5°	243.6	244.3	247.3	257.0	259.6
65°	210.5	210.0	210.9	217.5	222.3
67.5°	180.4	178.6	178.6	182.2	188.1
70°	151.9	149.2	147.7	148.8	153.0
72.5°	127.9	124.4	120.5	119.8	122.5
75°	103.8	101.0	97.7	94.6	95.9
77.5°	82.7	80.3	77.3	73.7	72.0
80°	61.9	61.0	57.7	54.4	50.9
82.5°	43.2	42.6	40.4	37.7	35.6
85°	25.5	25.5	24.1	22.2	20.0
87.5°	11.4	11.0	11.4	9.7	9.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)