

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: P738410

Luminaire Tested: **24PT-20-PL1-L850**

Issue Date: 2/8/2024



Test Information

Test Method: LM-79-08
Report Number: P738410
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-L850
Description: 2000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 5000K, 80 CRI LEDS AND LEAVES LENS

Light Source: -
Ballast/Driver: -

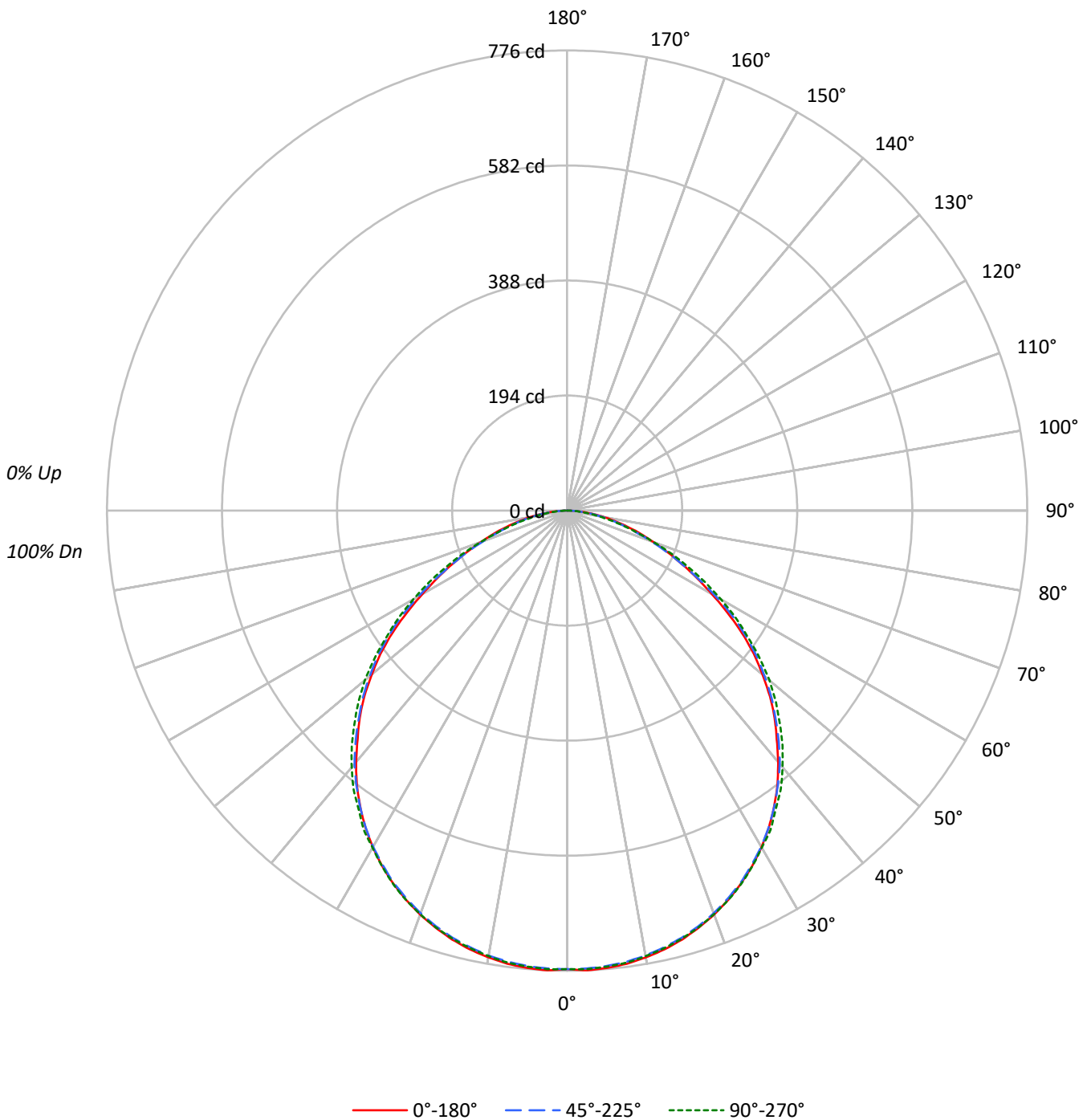
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2047.0 lumens
Efficiency: N/A
Efficacy: 135.6 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: P738410
CATALOG NUMBER: 24PT-20-PL1-L850

Luminous Intensity Polar Plot





TEST NUMBER: P738410

CATALOG NUMBER: 24PT-20-PL1-L850

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°	1109	1109	1109
5°	1114	1110	1111
10°	1114	1109	1111
15°	1112	1107	1109
20°	1106	1103	1105
25°	1098	1095	1099
30°	1085	1083	1087
35°	1065	1066	1074
40°	1036	1044	1058
45°	1004	1008	1028
50°	959	970	993
55°	900	917	931
60°	808	828	859
65°	723	725	764
70°	645	627	649
75°	582	548	538
80°	518	483	426
85°	424	403	332



TEST NUMBER: P738410

CATALOG NUMBER: 24PT-20-PL1-L850

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.4	3.6
10°-20°	210.6	10.3
20°-30°	319.1	15.6
30°-40°	381.4	18.6
40°-50°	384.7	18.8
50°-60°	326.4	15.9
60°-70°	215.9	10.5
70°-80°	107.2	5.2
80°-90°	28.4	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°	603.1	29.5
0°-40°	984.5	48.1
0°-60°	1695.5	82.8
0°-90°	2047.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2047.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	773	773	773	773	773	
5°	774	772	771	770	772	74
15°	749	746	746	746	747	211
25°	694	692	692	692	695	320
35°	609	608	609	612	614	380
45°	495	494	497	504	507	381
55°	360	361	367	370	372	320
65°	213	213	214	220	225	213
75°	105	102	99	96	97	113
85°	26	26	24	22	20	31
90°	0	0	0	0	0	



TEST NUMBER: P738410

CATALOG NUMBER: 24PT-20-PL1-L850

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	773.3	773.3	773.3	773.3	773.3
2.5°	776.0	773.6	772.9	772.5	774.2
5°	774.2	771.6	770.9	770.5	772.0
7.5°	770.7	767.8	767.3	766.9	768.9
10°	764.9	762.2	761.8	761.3	763.1
12.5°	758.0	755.3	754.5	754.7	755.8
15°	748.9	746.5	745.8	745.8	747.3
17.5°	737.6	735.3	734.9	734.7	736.7
20°	724.9	722.7	722.7	723.3	724.4
22.5°	710.4	708.9	708.0	708.4	710.7
25°	694.0	692.4	692.4	692.2	694.7
27.5°	675.8	673.8	673.8	675.5	676.4
30°	655.3	653.5	654.4	655.8	656.6
32.5°	633.3	632.2	632.9	634.9	638.4
35°	608.6	607.7	608.9	612.2	613.5
37.5°	582.8	582.2	583.7	588.2	592.0
40°	553.5	553.5	557.7	561.7	565.3
42.5°	523.0	525.0	528.2	534.4	537.5
45°	495.0	494.4	497.3	503.9	507.0
47.5°	463.9	463.3	467.5	472.1	477.3
50°	429.9	429.7	434.8	438.8	445.2
52.5°	396.8	398.8	402.1	405.7	409.5
55°	360.1	361.0	366.8	370.1	372.3
57.5°	320.5	323.4	330.5	335.4	337.4
60°	281.9	283.6	288.8	297.4	299.4
62.5°	246.7	247.4	250.5	260.3	263.0
65°	213.2	212.7	213.6	220.3	225.2
67.5°	182.7	180.9	180.9	184.5	190.5
70°	153.8	151.2	149.6	150.7	154.9
72.5°	129.6	126.0	122.0	121.4	124.0
75°	105.1	102.3	98.9	95.8	97.1
77.5°	83.8	81.4	78.2	74.7	72.9
80°	62.7	61.8	58.5	55.1	51.6
82.5°	43.8	43.1	40.9	38.2	36.0
85°	25.8	25.8	24.5	22.5	20.2
87.5°	11.6	11.1	11.6	9.8	9.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)