

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: P738549

Luminaire Tested: **24PT-45-PR1-L940**

Issue Date: 2/8/2024



Test Information

Test Method: LM-79-08
Report Number: P738549
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2210-816-15)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/8/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 24PT-45-PR1-L940
Description: 4500 LUMEN 2X4 PERCEIVE PT TROFFER WITH 4000K, 90 CRI LEDS AND RIPPLE LENS

Light Source: -
Ballast/Driver: -

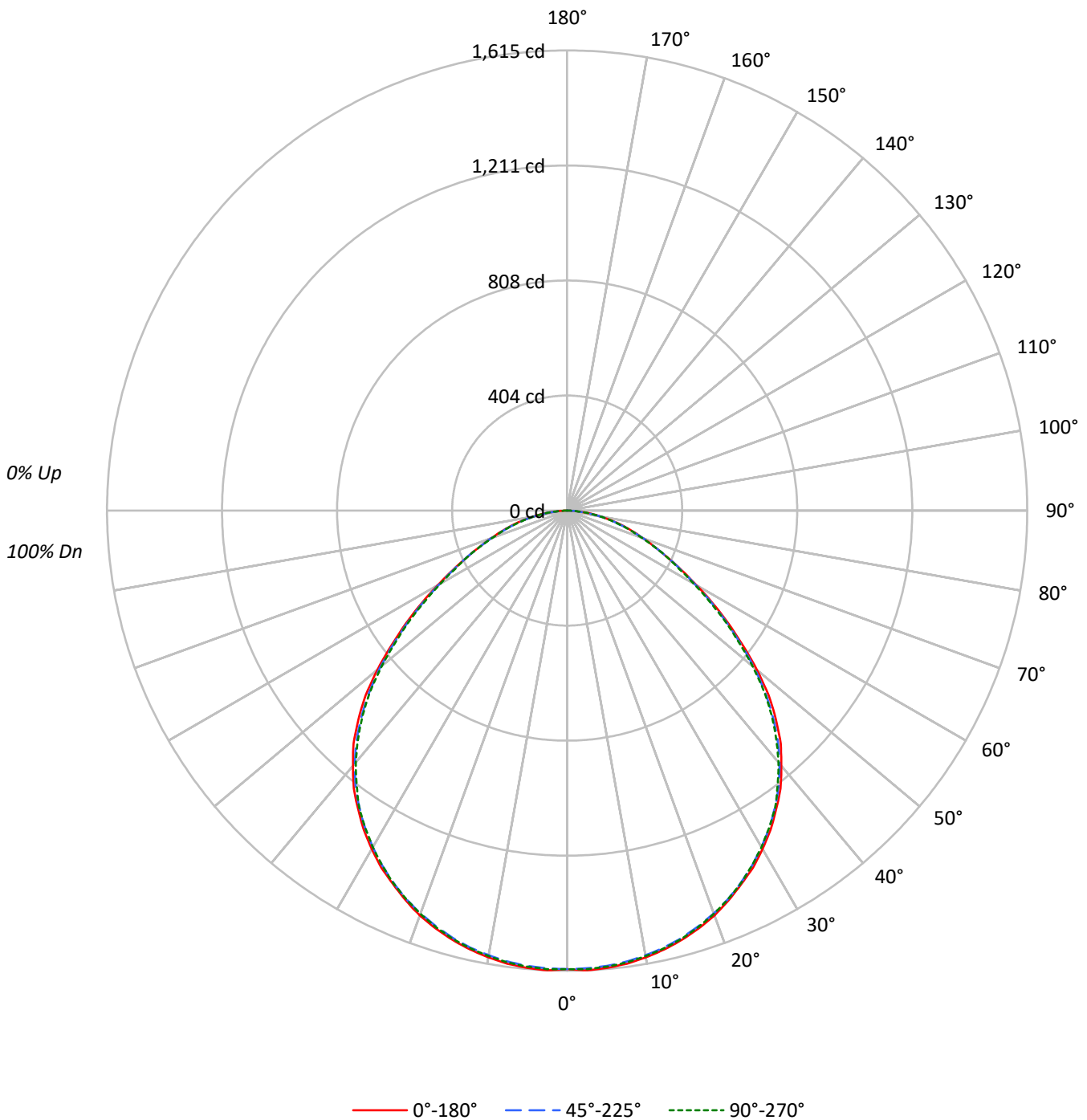
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4099.0 lumens
Efficiency: N/A
Efficacy: 110.2 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): 37.2
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	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72
3	92	82	74	68	89	80	73	67	77	71	66	75	70	65	72	68	64	62
4	84	73	65	58	82	72	64	58	69	62	57	67	61	56	65	60	56	53
5	78	66	57	51	76	64	56	50	62	55	50	60	54	49	59	53	49	47
6	72	59	51	44	70	58	50	44	57	49	44	55	48	43	53	48	43	41
7	67	54	45	39	65	53	45	39	52	44	39	50	44	39	49	43	38	36
8	62	49	41	35	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	42	36	31	41	36	31	29
10	55	42	34	29	53	41	34	29	40	33	29	39	33	29	38	33	28	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2308	2308	2308
5°	2319	2309	2313
10°	2318	2307	2312
15°	2315	2304	2308
20°	2307	2296	2298
25°	2288	2281	2283
30°	2271	2258	2258
35°	2239	2226	2228
40°	2188	2170	2161
45°	2101	2067	2056
50°	1940	1911	1893
55°	1726	1702	1690
60°	1505	1488	1473
65°	1319	1320	1313
70°	1187	1183	1166
75°	1105	1073	1075
80°	987	969	969
85°	762	783	753



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.6	3.7
10°-20°	438.4	10.7
20°-30°	664.7	16.2
30°-40°	795.0	19.4
40°-50°	784.9	19.1
50°-60°	610.9	14.9
60°-70°	387.9	9.5
70°-80°	208.1	5.1
80°-90°	56.4	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°	1255.7	30.6
0°-40°	2050.7	50.0
0°-60°	3446.6	84.1
0°-90°	4099.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4099.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1610	1610	1610	1610	1610	
5°	1611	1606	1604	1603	1607	153
15°	1559	1554	1552	1551	1555	440
25°	1446	1444	1442	1439	1443	667
35°	1279	1277	1272	1268	1273	800
45°	1036	1029	1020	1015	1014	795
55°	691	687	681	676	676	618
65°	389	390	389	384	387	390
75°	200	196	194	193	194	211
85°	46	47	48	48	46	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1609.5	1609.5	1609.5	1609.5	1609.5
2.5°	1614.9	1609.5	1607.7	1606.8	1610.9
5°	1610.9	1605.9	1604.1	1603.2	1606.8
7.5°	1604.1	1598.3	1596.5	1595.6	1599.6
10°	1592.0	1586.6	1584.3	1584.3	1587.9
12.5°	1577.6	1573.1	1570.9	1569.1	1573.1
15°	1559.2	1553.8	1552.4	1550.6	1555.1
17.5°	1537.2	1531.8	1530.0	1529.1	1532.2
20°	1512.0	1505.3	1504.4	1503.9	1505.7
22.5°	1481.0	1477.4	1475.6	1474.7	1476.1
25°	1446.4	1443.7	1441.9	1439.2	1442.8
27.5°	1412.7	1409.1	1404.6	1402.4	1404.6
30°	1371.4	1366.9	1363.7	1362.8	1363.7
32.5°	1328.7	1324.2	1320.1	1319.7	1319.2
35°	1279.2	1276.6	1271.6	1267.6	1273.0
37.5°	1230.3	1224.0	1219.5	1214.5	1213.2
40°	1169.2	1166.9	1159.3	1154.8	1154.3
42.5°	1109.8	1099.5	1094.1	1091.0	1086.0
45°	1036.2	1029.0	1019.5	1014.6	1014.1
47.5°	959.3	950.3	941.4	934.6	936.4
50°	869.5	865.4	856.9	851.0	848.8
52.5°	776.9	776.0	767.0	763.4	759.4
55°	690.6	687.0	680.7	676.2	676.2
57.5°	605.7	602.6	599.4	590.9	590.9
60°	524.8	524.4	519.0	514.0	513.6
62.5°	452.5	455.2	450.2	445.3	442.6
65°	388.7	390.0	389.1	384.2	386.9
67.5°	332.5	333.0	331.2	328.5	330.3
70°	283.1	285.3	282.2	280.4	278.1
72.5°	239.9	239.0	236.3	237.7	234.6
75°	199.5	196.4	193.7	193.2	194.1
77.5°	159.1	158.2	155.9	155.9	154.6
80°	119.5	118.6	117.3	117.7	117.3
82.5°	84.9	82.7	80.9	81.8	82.2
85°	46.3	47.2	47.6	47.6	45.8
87.5°	18.9	18.4	18.9	19.8	20.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)