

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: P738511

Luminaire Tested: **24PT-40-PR1-L830**

Issue Date: 2/8/2024



Test Information

Test Method: LM-79-08
Report Number: P738511
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-40-PR1-L830
Description: 4000 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3000K, 80 CRI LEDS AND RIPPLE LENS

Light Source: -
Ballast/Driver: -

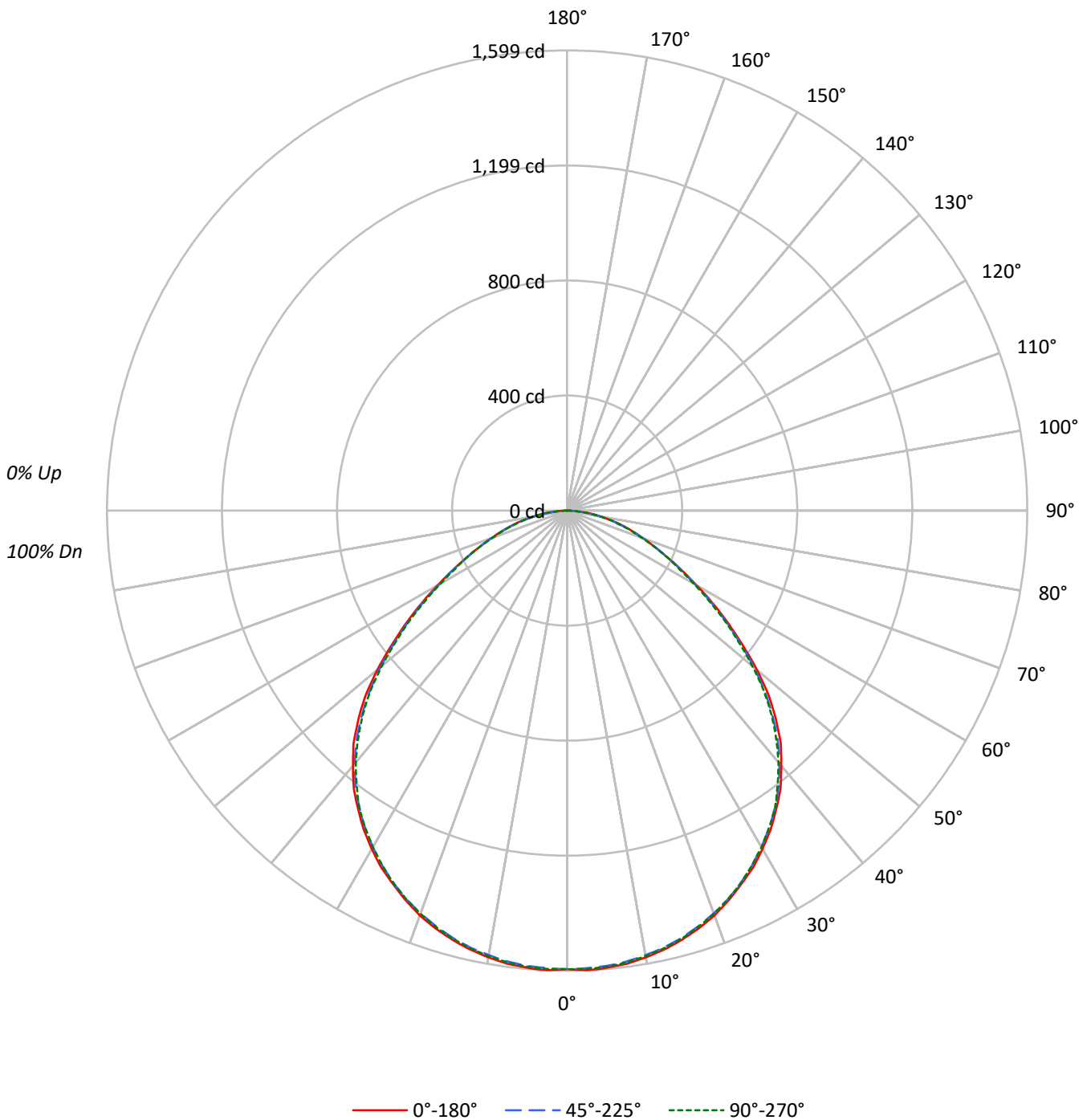
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4058.0 lumens
Efficiency: N/A
Efficacy: 124.1 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): 32.7
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

TEST NUMBER: P738511
CATALOG NUMBER: 24PT-40-PR1-L830

Luminous Intensity Polar Plot





TEST NUMBER: P738511

CATALOG NUMBER: 24PT-40-PR1-L830

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	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					100			
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85					85			
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72					72			
3	92	82	74	68	89	80	73	67	77	71	66	75	70	65	72	68	64	62					62			
4	84	73	65	58	82	72	64	58	69	62	57	67	61	56	65	60	56	53					53			
5	78	66	57	51	76	64	56	50	62	55	50	60	54	49	59	53	49	47					47			
6	72	59	51	44	70	58	50	44	57	49	44	55	48	43	53	48	43	41					41			
7	67	54	45	39	65	53	45	39	52	44	39	50	44	39	49	43	38	36					36			
8	62	49	41	35	61	49	41	35	47	40	35	46	40	35	45	39	35	33					33			
9	58	45	37	32	57	45	37	32	44	37	32	42	36	31	41	36	31	29					29			
10	55	42	34	29	53	41	34	29	40	33	29	39	33	29	38	33	28	27					27			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2285	2285	2285
5°	2295	2286	2290
10°	2295	2284	2289
15°	2291	2281	2285
20°	2284	2272	2275
25°	2265	2258	2260
30°	2248	2235	2235
35°	2217	2204	2206
40°	2167	2148	2139
45°	2080	2047	2036
50°	1920	1892	1874
55°	1709	1685	1674
60°	1490	1473	1458
65°	1306	1307	1299
70°	1175	1171	1155
75°	1094	1062	1065
80°	977	959	959
85°	753	777	747



TEST NUMBER: P738511

CATALOG NUMBER: 24PT-40-PR1-L830

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.1	3.7
10°-20°	434.0	10.7
20°-30°	658.0	16.2
30°-40°	787.0	19.4
40°-50°	777.1	19.1
50°-60°	604.8	14.9
60°-70°	384.0	9.5
70°-80°	206.1	5.1
80°-90°	55.9	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°	1243.2	30.6
0°-40°	2030.2	50.0
0°-60°	3412.1	84.1
0°-90°	4058.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4058.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1593	1593	1593	1593	1593	
5°	1595	1590	1588	1587	1591	152
15°	1544	1538	1537	1535	1540	436
25°	1432	1429	1428	1425	1428	660
35°	1266	1264	1259	1255	1260	792
45°	1026	1019	1009	1004	1004	787
55°	684	680	674	670	670	612
65°	385	386	385	380	383	386
75°	198	194	192	191	192	209
85°	46	47	47	47	45	57
90°	0	0	0	0	0	



TEST NUMBER: P738511

CATALOG NUMBER: 24PT-40-PR1-L830

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1593.4	1593.4	1593.4	1593.4	1593.4
2.5°	1598.7	1593.4	1591.6	1590.7	1594.7
5°	1594.7	1589.8	1588.1	1587.2	1590.7
7.5°	1588.1	1582.3	1580.5	1579.6	1583.6
10°	1576.1	1570.7	1568.5	1568.5	1572.1
12.5°	1561.8	1557.4	1555.2	1553.4	1557.4
15°	1543.6	1538.2	1536.9	1535.1	1539.6
17.5°	1521.8	1516.5	1514.7	1513.8	1516.9
20°	1496.9	1490.2	1489.3	1488.9	1490.7
22.5°	1466.2	1462.6	1460.8	1460.0	1461.3
25°	1431.9	1429.3	1427.5	1424.8	1428.4
27.5°	1398.6	1395.0	1390.6	1388.3	1390.6
30°	1357.6	1353.2	1350.1	1349.2	1350.1
32.5°	1315.4	1310.9	1306.9	1306.5	1306.0
35°	1266.5	1263.8	1258.9	1254.9	1260.2
37.5°	1218.0	1211.7	1207.3	1202.4	1201.1
40°	1157.5	1155.2	1147.7	1143.2	1142.8
42.5°	1098.7	1088.5	1083.2	1080.1	1075.2
45°	1025.8	1018.7	1009.3	1004.4	1004.0
47.5°	949.7	940.8	931.9	925.3	927.0
50°	860.8	856.8	848.3	842.5	840.3
52.5°	769.1	768.2	759.3	755.8	751.8
55°	683.7	680.2	673.9	669.5	669.5
57.5°	599.6	596.5	593.4	585.0	585.0
60°	519.6	519.1	513.8	508.9	508.4
62.5°	448.0	450.6	445.7	440.8	438.2
65°	384.8	386.1	385.2	380.3	383.0
67.5°	329.2	329.6	327.8	325.2	327.0
70°	280.2	282.5	279.4	277.6	275.4
72.5°	237.5	236.7	234.0	235.3	232.2
75°	197.5	194.4	191.7	191.3	192.2
77.5°	157.5	156.6	154.4	154.4	153.0
80°	118.3	117.4	116.1	116.5	116.1
82.5°	84.1	81.9	80.1	81.0	81.4
85°	45.8	46.7	47.2	47.2	45.4
87.5°	18.7	18.2	18.7	19.6	20.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)