

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: P738557

Luminaire Tested: **24PT-45-PW1-L940**

Issue Date: 2/8/2024



Test Information

Test Method: LM-79-08
Report Number: P738557
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-45-PW1-L940
Description: 4500 LUMEN 2X4 PERCEIVE PT TROFFER WITH 4000K, 90 CRI LEDS AND WAVES LENS

Light Source: -
Ballast/Driver: -

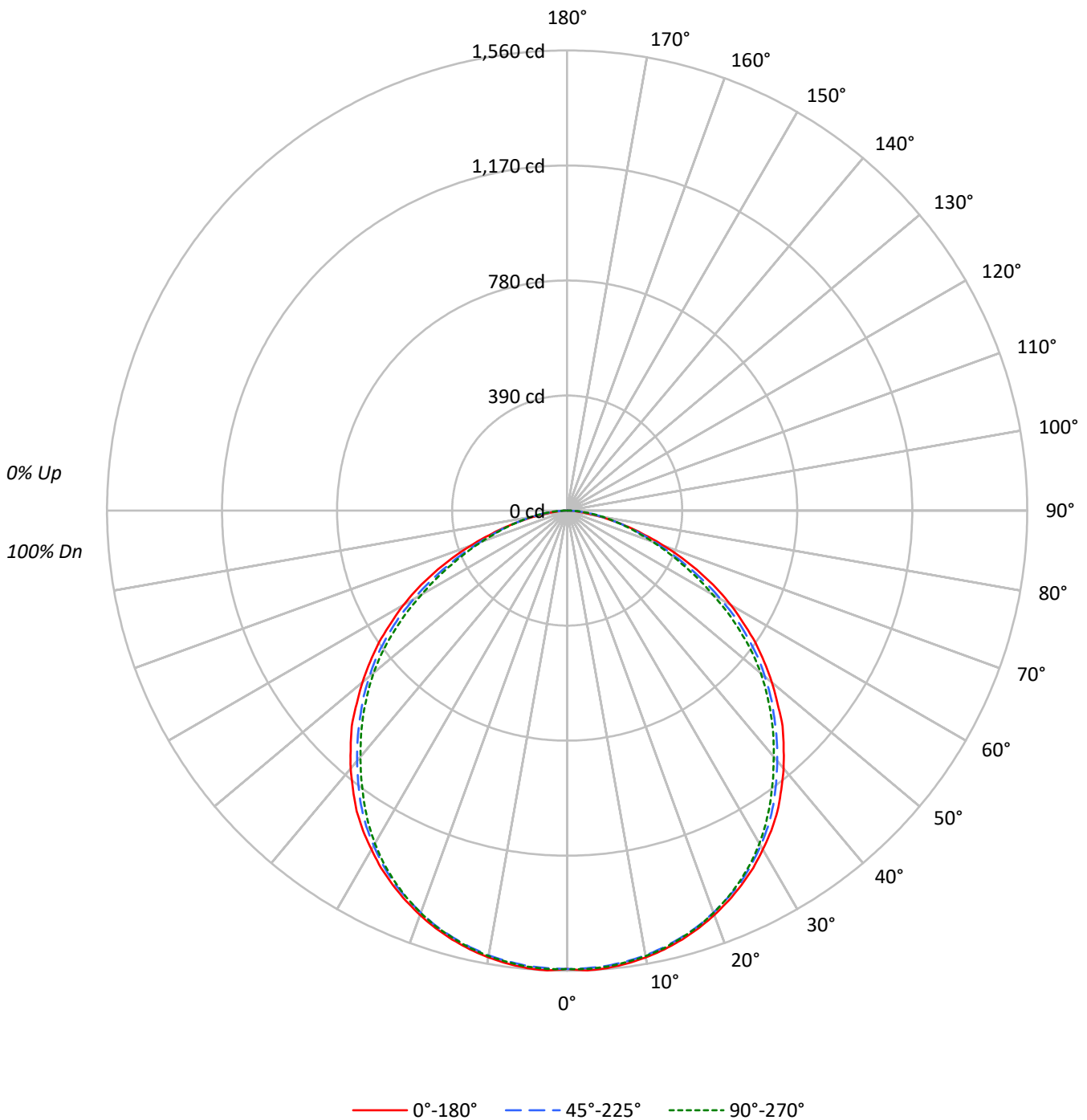
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4144.0 lumens
Efficiency: N/A
Efficacy: 111.4 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): 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

TEST NUMBER: P738557
CATALOG NUMBER: 24PT-45-PW1-L940

Luminous Intensity Polar Plot





TEST NUMBER: P738557

CATALOG NUMBER: 24PT-45-PW1-L940

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°	2229	2229	2229
5°	2241	2230	2234
10°	2239	2229	2233
15°	2235	2223	2226
20°	2226	2213	2215
25°	2214	2201	2193
30°	2197	2171	2158
35°	2177	2133	2103
40°	2137	2074	2039
45°	2095	2014	1981
50°	2021	1953	1911
55°	1947	1863	1796
60°	1840	1727	1638
65°	1685	1538	1459
70°	1460	1334	1285
75°	1195	1150	1135
80°	872	983	1013
85°	584	821	872



TEST NUMBER: P738557

CATALOG NUMBER: 24PT-45-PW1-L940

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.4	3.6
10°-20°	423.2	10.2
20°-30°	640.4	15.5
30°-40°	762.0	18.4
40°-50°	769.7	18.6
50°-60°	666.0	16.1
60°-70°	455.0	11.0
70°-80°	224.2	5.4
80°-90°	56.0	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°	1211.0	29.2
0°-40°	1973.0	47.6
0°-60°	3408.8	82.3
0°-90°	4144.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4144.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1554	1554	1554	1554	1554	
5°	1557	1551	1549	1548	1552	148
15°	1506	1501	1498	1497	1499	425
25°	1400	1394	1392	1386	1386	645
35°	1244	1233	1218	1205	1202	776
45°	1033	1015	993	982	977	793
55°	779	768	745	730	718	693
65°	496	478	453	438	430	490
75°	216	209	208	206	205	231
85°	36	44	50	52	53	46
90°	0	0	0	0	0	



TEST NUMBER: P738557

CATALOG NUMBER: 24PT-45-PW1-L940

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1554.2	1554.2	1554.2	1554.2	1554.2
2.5°	1560.5	1554.6	1552.8	1551.5	1555.5
5°	1556.9	1551.0	1549.2	1547.9	1552.4
7.5°	1549.2	1543.4	1541.6	1540.2	1543.8
10°	1538.0	1532.6	1530.8	1529.4	1533.5
12.5°	1523.6	1518.7	1516.4	1514.6	1519.1
15°	1505.6	1500.7	1497.5	1496.6	1499.3
17.5°	1484.1	1479.1	1476.9	1475.5	1478.7
20°	1458.9	1453.5	1450.4	1448.6	1451.3
22.5°	1431.0	1425.7	1421.6	1419.8	1420.7
25°	1399.6	1394.2	1391.5	1386.1	1386.1
27.5°	1365.9	1359.6	1352.9	1347.0	1347.5
30°	1326.8	1319.6	1311.5	1303.9	1303.4
32.5°	1287.3	1278.3	1268.4	1258.1	1254.9
35°	1243.7	1233.4	1218.5	1205.0	1201.5
37.5°	1192.5	1183.0	1163.3	1152.0	1146.2
40°	1141.7	1128.2	1108.0	1095.0	1089.6
42.5°	1086.0	1073.0	1051.4	1039.3	1034.8
45°	1033.0	1015.4	993.0	981.7	976.8
47.5°	966.9	952.5	936.8	923.8	917.5
50°	905.8	894.1	875.3	860.9	856.8
52.5°	842.0	832.1	814.1	795.3	790.8
55°	778.7	767.9	745.4	729.7	718.4
57.5°	707.2	697.8	676.7	656.4	646.6
60°	641.6	625.4	602.1	580.1	571.1
62.5°	570.2	554.4	527.5	505.0	500.1
65°	496.5	477.6	453.4	438.5	430.0
67.5°	421.9	403.5	383.3	373.8	368.4
70°	348.2	333.4	318.1	311.4	306.4
72.5°	277.2	268.7	260.1	257.5	253.0
75°	215.7	209.4	207.6	206.2	204.9
77.5°	155.5	158.6	160.4	162.2	160.4
80°	105.6	112.3	119.1	122.7	122.7
82.5°	65.1	76.8	82.7	86.3	85.8
85°	35.5	44.0	49.9	51.7	53.0
87.5°	14.4	18.0	20.2	22.0	22.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)