

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: P738547

Luminaire Tested: **24PT-45-PR1-L930**

Issue Date: 2/8/2024



Test Information

Test Method: LM-79-08
Report Number: P738547
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-L930
Description: 4500 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3000K, 90 CRI LEDS AND RIPLE LENS

Light Source: -
Ballast/Driver: -

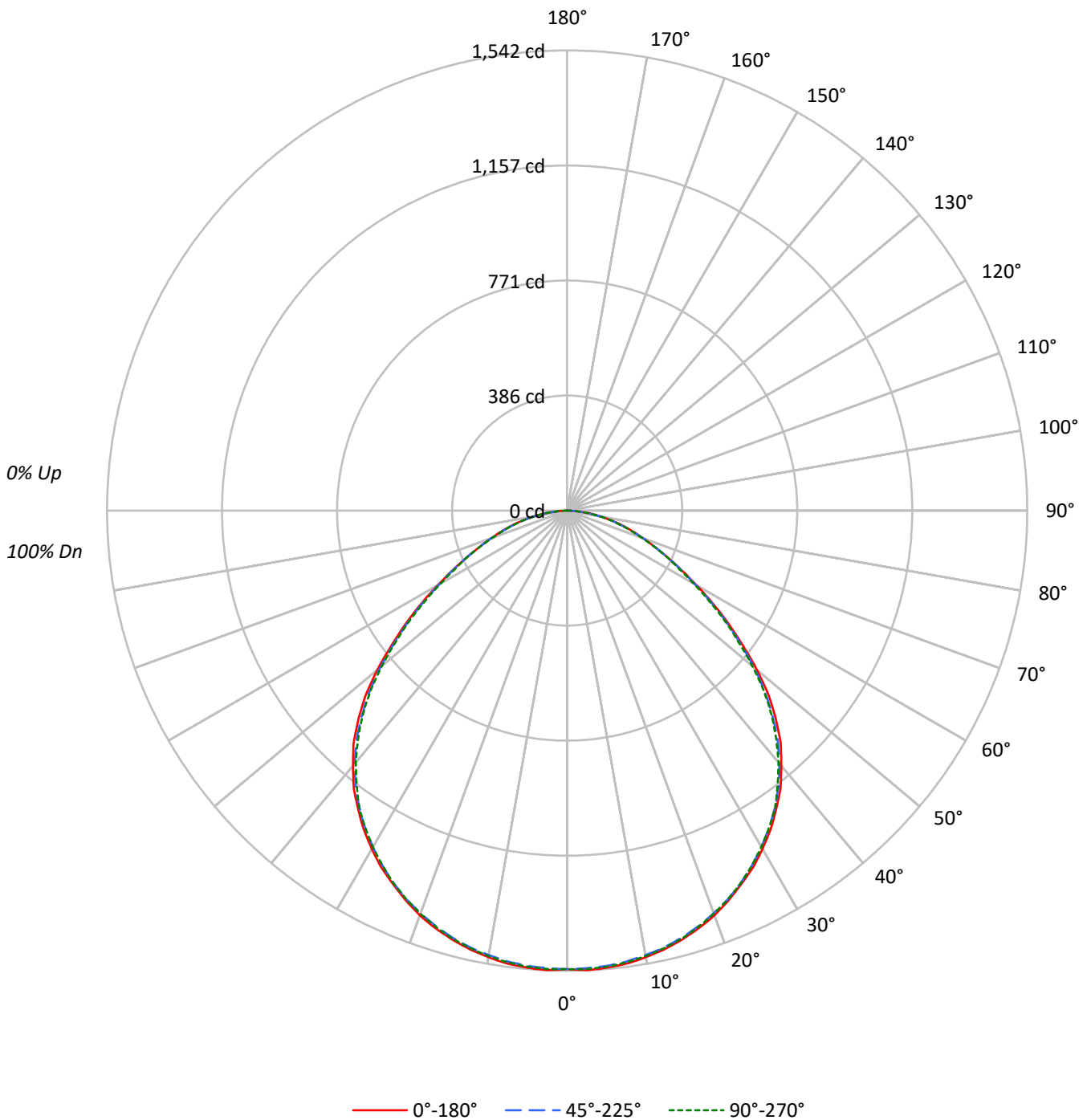
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3913.0 lumens
Efficiency: N/A
Efficacy: 105.2 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 (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

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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	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				
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°	2203	2203	2203
5°	2213	2204	2208
10°	2213	2202	2207
15°	2209	2200	2204
20°	2202	2191	2193
25°	2185	2178	2179
30°	2167	2155	2155
35°	2138	2125	2127
40°	2089	2071	2063
45°	2006	1974	1963
50°	1851	1825	1808
55°	1648	1624	1614
60°	1437	1421	1406
65°	1259	1260	1253
70°	1133	1129	1113
75°	1055	1024	1027
80°	942	925	925
85°	727	749	721



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.7	3.7
10°-20°	418.5	10.7
20°-30°	634.5	16.2
30°-40°	758.9	19.4
40°-50°	749.3	19.1
50°-60°	583.2	14.9
60°-70°	370.2	9.5
70°-80°	198.7	5.1
80°-90°	53.9	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°	1198.8	30.6
0°-40°	1957.7	50.0
0°-60°	3290.2	84.1
0°-90°	3913.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3913.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1536	1536	1536	1536	1536	
5°	1538	1533	1531	1530	1534	146
15°	1488	1483	1482	1480	1485	420
25°	1381	1378	1376	1374	1377	637
35°	1221	1219	1214	1210	1215	764
45°	989	982	973	969	968	759
55°	659	656	650	646	646	590
65°	371	372	372	367	369	372
75°	190	187	185	184	185	201
85°	44	45	46	46	44	54
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1536.5	1536.5	1536.5	1536.5	1536.5
2.5°	1541.6	1536.5	1534.8	1533.9	1537.8
5°	1537.8	1533.0	1531.3	1530.5	1533.9
7.5°	1531.3	1525.7	1524.0	1523.2	1527.0
10°	1519.7	1514.6	1512.5	1512.5	1515.9
12.5°	1506.0	1501.7	1499.6	1497.9	1501.7
15°	1488.4	1483.3	1482.0	1480.3	1484.6
17.5°	1467.4	1462.3	1460.5	1459.7	1462.7
20°	1443.4	1437.0	1436.1	1435.7	1437.4
22.5°	1413.8	1410.4	1408.6	1407.8	1409.1
25°	1380.8	1378.2	1376.5	1373.9	1377.3
27.5°	1348.6	1345.2	1340.9	1338.7	1340.9
30°	1309.1	1304.8	1301.8	1301.0	1301.8
32.5°	1268.4	1264.1	1260.2	1259.8	1259.4
35°	1221.2	1218.6	1213.9	1210.0	1215.2
37.5°	1174.4	1168.4	1164.1	1159.4	1158.1
40°	1116.1	1114.0	1106.7	1102.4	1102.0
42.5°	1059.5	1049.6	1044.5	1041.5	1036.8
45°	989.1	982.3	973.3	968.6	968.1
47.5°	915.8	907.2	898.6	892.2	893.9
50°	830.0	826.1	818.0	812.4	810.3
52.5°	741.6	740.8	732.2	728.8	724.9
55°	659.3	655.9	649.8	645.6	645.6
57.5°	578.2	575.2	572.2	564.1	564.1
60°	501.0	500.6	495.4	490.7	490.3
62.5°	431.9	434.5	429.8	425.1	422.5
65°	371.0	372.3	371.5	366.7	369.3
67.5°	317.4	317.8	316.1	313.6	315.3
70°	270.2	272.4	269.4	267.7	265.5
72.5°	229.1	228.2	225.6	226.9	223.9
75°	190.5	187.4	184.9	184.4	185.3
77.5°	151.8	151.0	148.8	148.8	147.6
80°	114.1	113.2	112.0	112.4	112.0
82.5°	81.1	78.9	77.2	78.1	78.5
85°	44.2	45.0	45.5	45.5	43.8
87.5°	18.0	17.6	18.0	18.9	19.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)