

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: P738527

Luminaire Tested: **24PT-45-PC3-L830**

Issue Date: 2/8/2024



Test Information

Test Method: LM-79-08
Report Number: P738527
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2210-816-10)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/8/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 24PT-45-PC3-L830
Description: 4500 LUMEN 2X4 PERCEIVE PT TROFFER WITH 3000K, 80 CRI LEDS AND PARAMID LENS

Light Source: -
Ballast/Driver: -

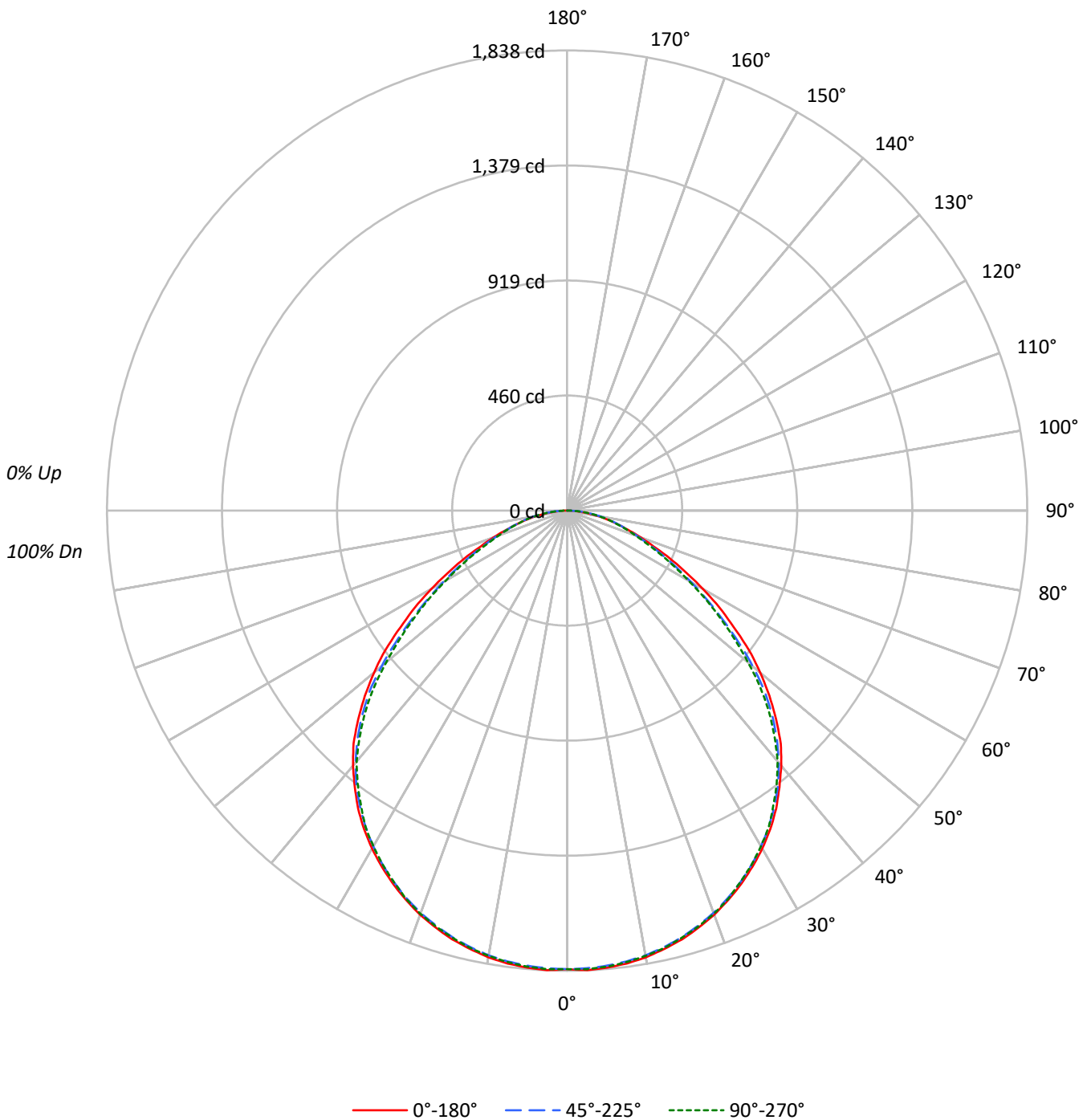
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4620.0 lumens
Efficiency: N/A
Efficacy: 124.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.25 / 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	88	86					86			
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73					73			
3	92	82	74	68	90	81	73	68	78	72	67	75	70	65	72	68	64	62					62			
4	85	73	65	59	82	72	64	58	69	63	57	67	61	57	65	60	56	54					54			
5	78	66	57	51	76	65	57	51	63	55	50	61	54	50	59	53	49	47					47			
6	72	59	51	45	70	59	50	44	57	50	44	55	49	44	54	48	43	41					41			
7	67	54	46	40	65	53	45	40	52	45	39	50	44	39	49	43	39	37					37			
8	63	49	41	36	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	43	36	32	42	36	31	30					30			
10	55	42	34	29	54	41	34	29	40	34	29	40	33	29	39	33	29	27					27			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2626	2626	2626
5°	2638	2627	2632
10°	2638	2626	2630
15°	2632	2620	2623
20°	2621	2609	2614
25°	2603	2590	2590
30°	2581	2564	2563
35°	2547	2526	2514
40°	2489	2460	2448
45°	2393	2349	2316
50°	2247	2160	2104
55°	2031	1894	1858
60°	1797	1639	1606
65°	1536	1420	1384
70°	1301	1246	1209
75°	1141	1161	1121
80°	1023	1128	1065
85°	864	1032	981



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.7	3.8
10°-20°	498.5	10.8
20°-30°	755.1	16.3
30°-40°	901.9	19.5
40°-50°	889.7	19.3
50°-60°	688.8	14.9
60°-70°	423.3	9.2
70°-80°	221.8	4.8
80°-90°	67.2	1.5
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°	1427.2	30.9
0°-40°	2329.1	50.4
0°-60°	3907.6	84.6
0°-90°	4620.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4620.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1832	1832	1832	1832	1832	
5°	1833	1827	1825	1824	1828	174
15°	1773	1767	1765	1763	1767	500
25°	1646	1640	1637	1636	1637	758
35°	1455	1448	1443	1438	1436	908
45°	1180	1171	1158	1146	1142	908
55°	813	791	758	746	743	729
65°	453	432	418	406	408	452
75°	206	208	210	205	202	222
85°	52	59	63	61	60	61
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1831.6	1831.6	1831.6	1831.6	1831.6
2.5°	1837.7	1832.1	1829.5	1829.0	1833.1
5°	1832.6	1827.0	1824.9	1823.9	1828.5
7.5°	1824.4	1818.3	1816.3	1814.7	1818.8
10°	1811.7	1805.6	1803.5	1802.5	1806.1
12.5°	1793.3	1787.7	1786.2	1784.7	1789.2
15°	1772.9	1767.3	1764.8	1763.3	1766.8
17.5°	1746.4	1741.8	1738.8	1738.8	1741.8
20°	1717.9	1712.3	1709.7	1708.2	1713.3
22.5°	1682.7	1679.1	1676.1	1673.5	1679.1
25°	1645.5	1640.4	1637.3	1636.3	1636.8
27.5°	1603.2	1599.6	1595.5	1594.0	1595.0
30°	1558.8	1554.3	1548.6	1545.6	1548.1
32.5°	1509.4	1502.8	1498.2	1495.1	1498.7
35°	1454.8	1448.2	1443.1	1438.5	1436.5
37.5°	1392.7	1390.6	1383.5	1375.3	1374.8
40°	1330.0	1324.3	1314.2	1310.6	1308.0
42.5°	1262.7	1250.9	1240.2	1230.0	1226.5
45°	1180.1	1171.4	1158.2	1145.9	1141.9
47.5°	1095.5	1084.3	1071.5	1050.1	1047.6
50°	1007.3	991.0	968.5	950.7	943.1
52.5°	915.5	893.6	862.5	847.2	843.1
55°	812.6	790.6	757.5	746.3	743.2
57.5°	720.8	688.7	661.7	648.9	653.0
60°	626.5	595.4	571.4	559.2	560.2
62.5°	534.2	509.8	491.9	480.2	481.7
65°	452.7	431.8	418.5	406.3	407.8
67.5°	372.6	362.9	353.3	346.1	342.0
70°	310.4	306.4	297.2	290.6	288.5
72.5°	253.9	256.4	248.8	246.7	246.2
75°	205.9	208.0	209.5	205.4	202.4
77.5°	164.7	167.7	173.8	168.2	167.2
80°	123.9	130.0	136.6	133.0	129.0
82.5°	86.7	94.3	100.4	95.8	93.8
85°	52.5	58.6	62.7	61.2	59.6
87.5°	23.4	25.5	27.5	28.0	27.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)