

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: METALUX

Report Number: P412879

Luminaire Tested: **24PD-55-PP3-L927**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412879
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-47)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24PD-55-PP3-L927
Description: 5500 LUMEN 2X4 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 90 CRI, 2700 CCT LEDS
Light Source: -
Ballast/Driver: -

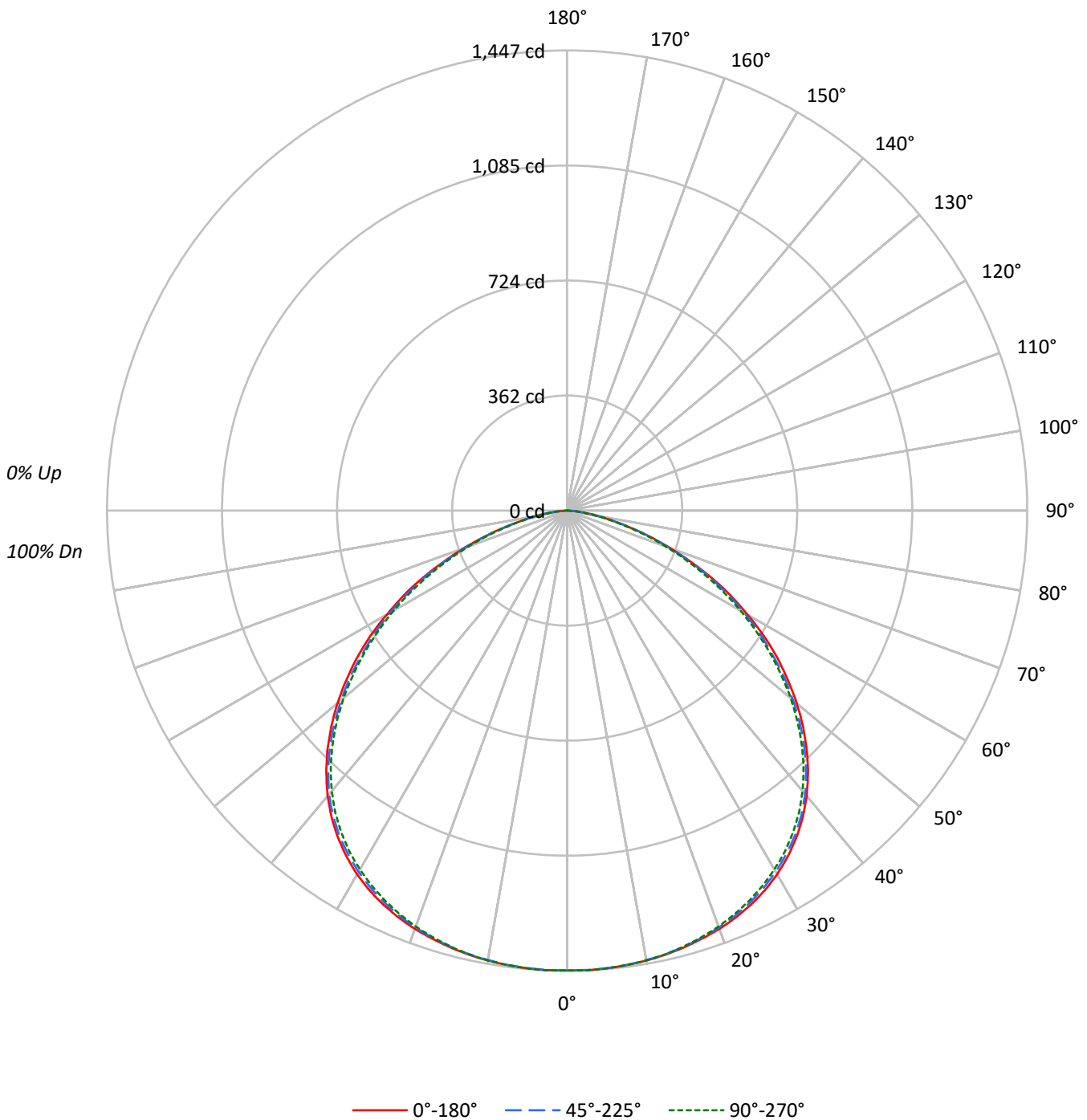
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4208.0 lumens
Efficiency: N/A
Efficacy: 100.9 lumens/watt
Spacing Criteria (0/90/45): 1.35 / 1.33 / 1.43
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 41.7
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

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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	109	105	101	97	107	103	99	96	98	95	93	95	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	66	89	79	72	66	76	70	65	73	68	64	71	66	63	60
4	83	72	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	52
5	77	64	55	49	75	63	54	48	61	53	48	59	52	47	57	51	47	45
6	71	58	49	42	69	57	48	42	55	47	42	53	46	41	52	46	41	39
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	38	33	43	37	32	31
9	57	44	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1946	1946	1946
5°	1951	1950	1952
10°	1963	1961	1963
15°	1981	1978	1976
20°	2004	1998	1993
25°	2030	2019	2010
30°	2052	2038	2025
35°	2063	2051	2032
40°	2058	2045	2022
45°	2028	2008	1986
50°	1973	1941	1921
55°	1891	1846	1822
60°	1762	1731	1696
65°	1597	1565	1520
70°	1363	1338	1295
75°	1065	1054	1003
80°	785	752	711
85°	474	474	442



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.6	3.3
10°-20°	401.5	9.5
20°-30°	627.5	14.9
30°-40°	779.9	18.5
40°-50°	812.6	19.3
50°-60°	705.1	16.8
60°-70°	484.9	11.5
70°-80°	218.8	5.2
80°-90°	40.1	1.0
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°	1166.6	27.7
0°-40°	1946.5	46.3
0°-60°	3464.2	82.3
0°-90°	4208.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4208.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1446	1446	1446	1446	1446	
5°	1444	1445	1444	1443	1445	138
15°	1422	1422	1420	1418	1419	402
25°	1367	1367	1360	1354	1354	631
35°	1256	1256	1248	1241	1237	785
45°	1066	1066	1056	1048	1044	821
55°	806	802	787	778	777	718
65°	502	500	492	480	477	495
75°	205	206	203	197	193	223
85°	31	30	31	30	29	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1446.2	1446.2	1446.2	1446.2	1446.2
2.5°	1446.6	1446.6	1445.7	1444.5	1447.4
5°	1444.5	1444.9	1444.1	1442.8	1444.9
7.5°	1441.5	1442.0	1440.7	1439.4	1441.1
10°	1436.9	1436.5	1435.2	1434.4	1436.5
12.5°	1430.2	1429.8	1428.5	1427.7	1429.3
15°	1421.8	1421.8	1419.7	1418.4	1418.8
17.5°	1411.7	1411.7	1408.7	1405.8	1406.6
20°	1399.9	1399.5	1395.3	1392.3	1391.9
22.5°	1385.2	1385.2	1379.3	1375.5	1374.3
25°	1367.1	1366.7	1360.0	1354.5	1353.7
27.5°	1346.5	1345.7	1337.7	1332.2	1330.1
30°	1320.9	1320.0	1311.6	1305.7	1303.2
32.5°	1290.6	1291.8	1282.2	1275.4	1272.9
35°	1256.1	1256.1	1248.5	1241.4	1237.2
37.5°	1216.6	1216.6	1209.4	1202.3	1197.2
40°	1171.6	1172.0	1164.4	1155.6	1151.4
42.5°	1121.1	1121.9	1111.9	1104.7	1100.1
45°	1066.0	1066.4	1055.5	1047.5	1043.7
47.5°	1006.3	1005.5	993.3	986.5	982.8
50°	942.4	940.7	927.2	920.9	917.6
52.5°	875.5	872.2	860.4	851.1	848.2
55°	806.1	801.5	786.8	777.5	776.7
57.5°	733.8	728.3	716.1	707.3	703.9
60°	654.7	653.5	643.4	632.9	630.4
62.5°	580.7	577.0	568.1	555.5	554.2
65°	501.7	499.6	491.6	479.8	477.3
67.5°	420.1	422.2	415.5	405.0	401.6
70°	346.5	347.8	340.2	330.5	329.3
72.5°	272.5	274.6	268.3	262.0	260.7
75°	204.8	205.6	202.7	197.2	193.0
77.5°	145.5	148.4	145.1	141.3	137.9
80°	101.3	96.7	97.1	95.5	91.7
82.5°	61.0	58.9	58.5	56.8	55.1
85°	30.7	30.3	30.7	30.3	28.6
87.5°	10.1	10.9	11.4	11.4	10.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)