

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: P412750

Luminaire Tested: **22PD-50-PP3-L835**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412750
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-16)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22PD-50-PP3-L835
Description: 5000 LUMEN 2X2 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 80 CRI, 3500 CCT LEDS
Light Source: -
Ballast/Driver: -

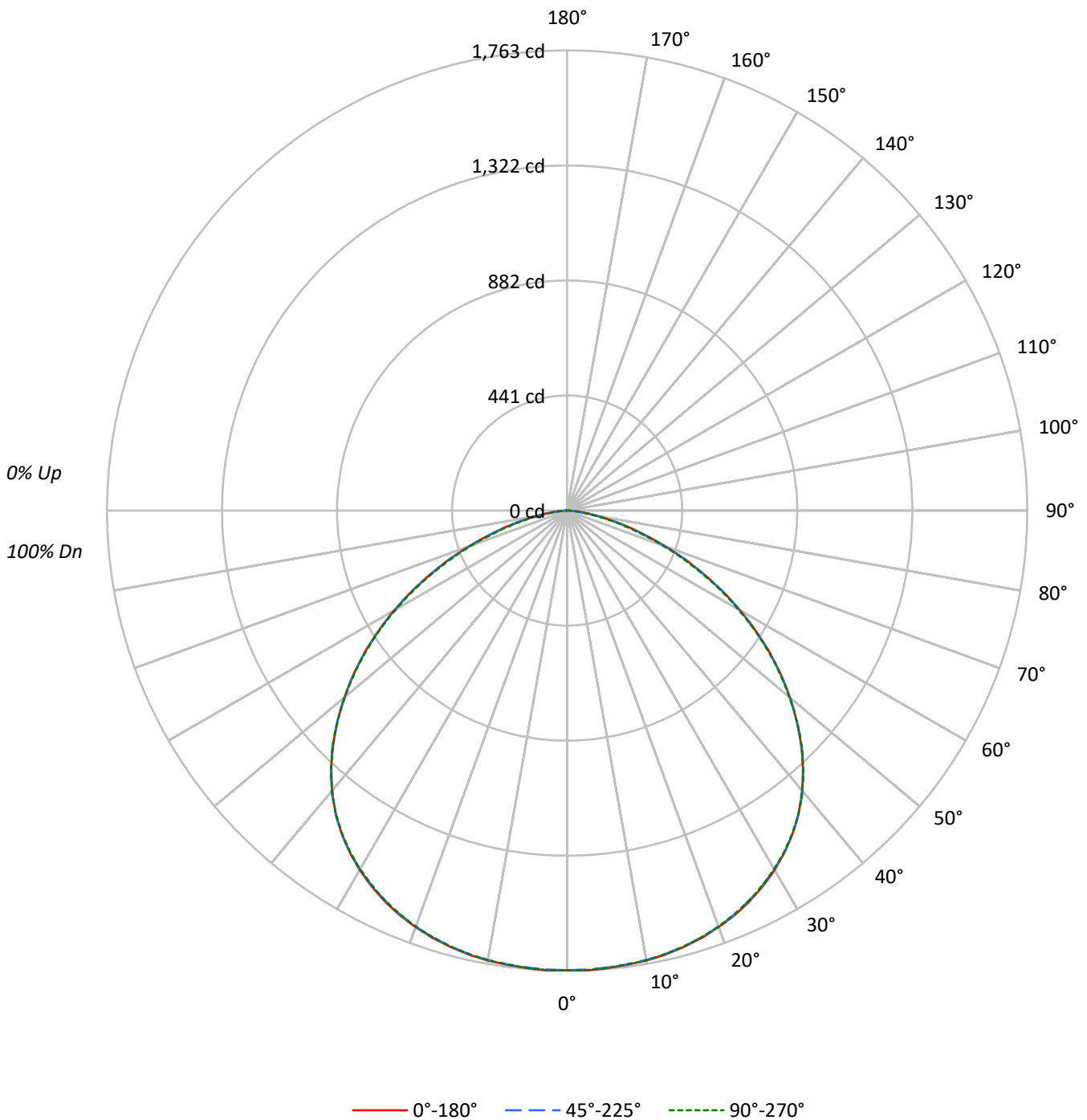
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5052.0 lumens
Efficiency: N/A
Efficacy: 118.9 lumens/watt
Spacing Criteria (0/90/45): 1.33 / 1.33 / 1.43
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 42.5
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	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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85					85			
2	100	92	85	80	97	90	84	79	87	81	77	83	79	75	80	77	74	72					72			
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61					61			
4	84	72	63	57	81	70	62	56	68	61	55	66	60	55	64	58	54	52					52			
5	77	64	55	49	75	63	55	49	61	54	48	59	53	47	57	51	47	45					45			
6	71	58	49	43	69	57	48	42	55	48	42	53	47	42	52	46	41	39					39			
7	66	52	44	38	64	52	43	37	50	43	37	49	42	37	47	41	37	35					35			
8	61	48	39	33	60	47	39	33	46	38	33	44	38	33	43	37	33	31					31			
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28					28			
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25					25			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4738	4738	4738
5°	4753	4747	4750
10°	4783	4776	4779
15°	4820	4815	4815
20°	4862	4857	4856
25°	4905	4896	4896
30°	4940	4931	4929
35°	4954	4954	4948
40°	4921	4932	4921
45°	4824	4837	4830
50°	4662	4669	4657
55°	4438	4427	4419
60°	4120	4110	4078
65°	3680	3676	3635
70°	3146	3127	3057
75°	2507	2433	2359
80°	1785	1750	1658
85°	1161	1161	1127



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.5	3.3
10°-20°	488.5	9.7
20°-30°	760.6	15.1
30°-40°	941.3	18.6
40°-50°	976.1	19.3
50°-60°	841.4	16.7
60°-70°	572.0	11.3
70°-80°	255.9	5.1
80°-90°	48.7	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°	1416.5	28.0
0°-40°	2357.8	46.7
0°-60°	4175.3	82.6
0°-90°	5052.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5052.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1761	1761	1761	1761	1761	
5°	1760	1756	1757	1757	1758	168
15°	1730	1727	1728	1727	1728	489
25°	1652	1650	1649	1649	1649	762
35°	1508	1506	1508	1506	1506	942
45°	1268	1266	1271	1268	1269	976
55°	946	942	944	942	942	843
65°	578	583	577	576	571	574
75°	241	242	234	233	227	259
85°	38	39	38	36	36	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1760.8	1760.8	1760.8	1760.8	1760.8
2.5°	1763.2	1759.7	1759.7	1760.3	1762.0
5°	1759.7	1756.1	1757.3	1756.7	1758.5
7.5°	1755.0	1752.0	1753.8	1752.6	1753.8
10°	1750.3	1747.3	1747.9	1747.3	1749.1
12.5°	1742.0	1738.5	1739.7	1739.7	1740.3
15°	1730.3	1727.3	1728.5	1727.3	1728.5
17.5°	1716.2	1712.6	1713.2	1712.6	1713.8
20°	1697.9	1695.6	1696.2	1695.0	1695.6
22.5°	1677.4	1674.4	1675.0	1673.8	1673.8
25°	1652.1	1649.7	1649.1	1648.6	1649.1
27.5°	1622.7	1619.7	1619.7	1619.2	1619.2
30°	1589.8	1586.8	1586.8	1586.2	1586.2
32.5°	1551.0	1549.8	1550.4	1549.2	1548.6
35°	1508.0	1506.3	1508.0	1505.7	1506.3
37.5°	1458.1	1455.7	1459.2	1456.9	1457.5
40°	1401.0	1399.9	1404.0	1402.2	1401.0
42.5°	1337.5	1337.5	1339.3	1339.9	1338.7
45°	1267.6	1266.4	1271.1	1268.2	1269.3
47.5°	1192.3	1190.6	1194.1	1193.5	1192.9
50°	1113.5	1112.4	1115.3	1112.4	1112.4
52.5°	1031.8	1031.2	1031.8	1028.9	1028.3
55°	946.0	942.5	943.6	941.9	941.9
57.5°	856.6	852.5	853.1	852.5	853.1
60°	765.5	764.3	763.7	760.8	757.8
62.5°	672.0	673.2	672.6	668.5	665.5
65°	577.9	582.6	577.3	575.6	570.9
67.5°	489.2	490.9	487.4	483.3	478.0
70°	399.8	403.3	397.4	393.3	388.6
72.5°	314.5	316.9	311.6	309.3	303.4
75°	241.1	241.6	234.0	232.8	226.9
77.5°	171.7	174.0	168.1	168.1	162.3
80°	115.2	119.3	112.9	111.1	107.0
82.5°	72.3	72.9	71.1	69.4	67.6
85°	37.6	38.8	37.6	36.5	36.5
87.5°	14.1	14.7	14.1	13.5	14.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)