

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: P412408

Luminaire Tested: **22PD-50-PB1-L835**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412408
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-14)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22PD-50-PB1-L835
Description: 5000 LUMEN 2X2 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 80 CRI, 3500 CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

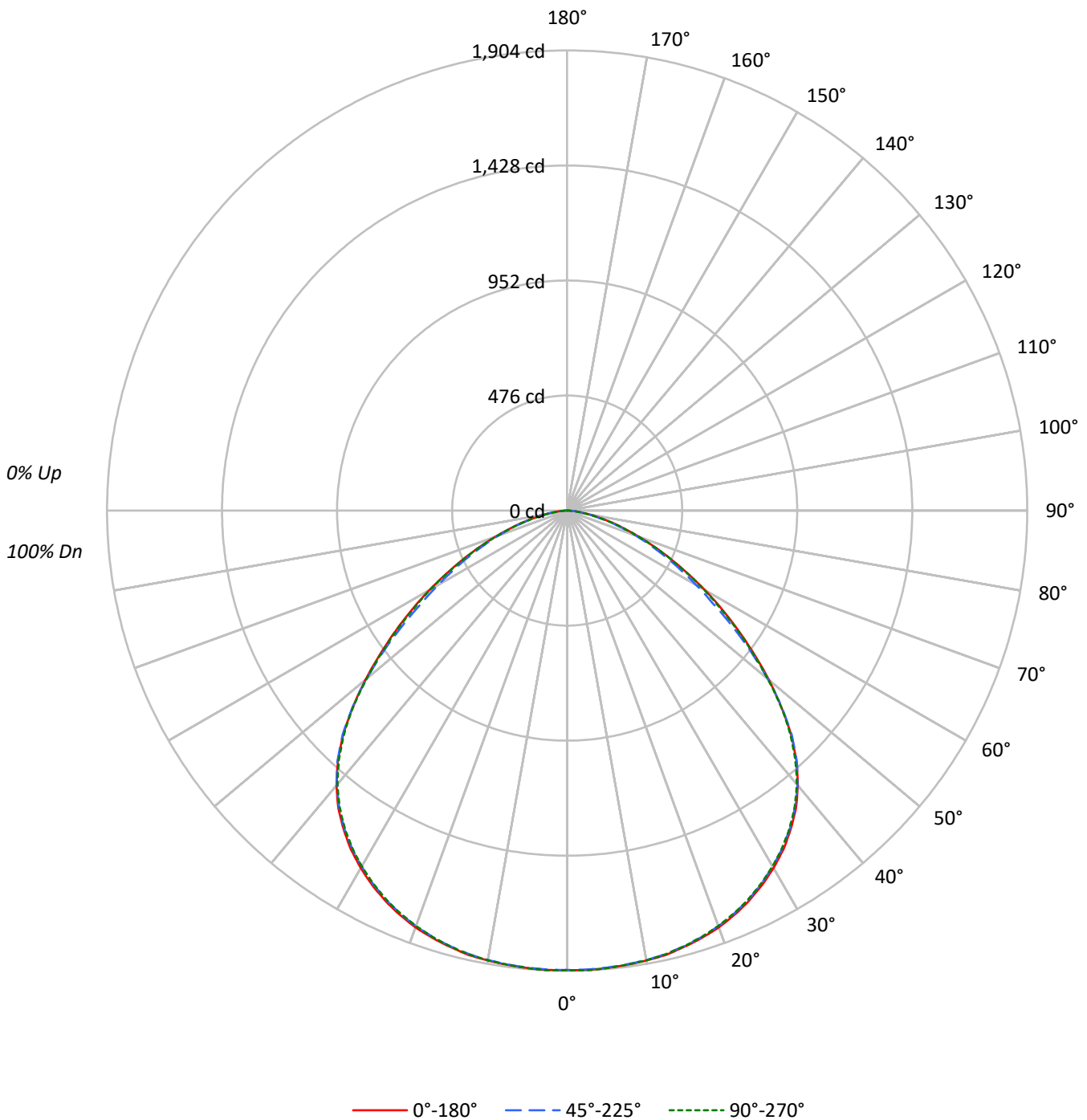
Lumens per Lamp: N/A
Luminaire Lumens: 4991.0 lumens
Efficiency: N/A
Efficacy: 117.4 lumens/watt
Spacing Criteria (0/90/45): 1.33 / 1.32 / 1.4
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 42.5
Input Voltage (V): NR
Input Current (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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	76	73
3	92	83	75	69	90	81	74	68	78	72	67	76	70	66	73	69	65	63
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	66	61	56	54
5	78	66	58	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47
6	72	60	51	45	71	59	51	45	57	50	44	55	49	44	54	48	44	42
7	67	54	46	40	66	53	45	40	52	45	39	51	44	39	49	43	39	37
8	63	50	41	36	61	49	41	36	48	40	35	46	40	35	45	39	35	33
9	59	46	38	32	57	45	37	32	44	37	32	43	36	32	42	36	32	30
10	55	42	34	29	54	41	34	29	41	34	29	40	33	29	39	33	29	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5116	5116	5116
5°	5132	5127	5134
10°	5166	5159	5162
15°	5208	5200	5200
20°	5255	5240	5237
25°	5288	5273	5268
30°	5306	5284	5281
35°	5295	5279	5270
40°	5216	5210	5193
45°	4987	5002	4964
50°	4565	4541	4536
55°	4057	3913	4029
60°	3537	3322	3515
65°	2998	2837	2983
70°	2479	2377	2456
75°	2005	1877	1926
80°	1449	1402	1393
85°	945	945	908



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.9	3.6
10°-20°	527.6	10.6
20°-30°	818.6	16.4
30°-40°	1003.9	20.1
40°-50°	1003.5	20.1
50°-60°	760.1	15.2
60°-70°	455.9	9.1
70°-80°	200.7	4.0
80°-90°	39.8	0.8
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°	1527.1	30.6
0°-40°	2530.9	50.7
0°-60°	4294.5	86.0
0°-90°	4991.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4991.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1901	1901	1901	1901	1901	
5°	1900	1898	1898	1898	1900	181
15°	1869	1868	1866	1865	1866	529
25°	1781	1778	1776	1773	1774	821
35°	1612	1611	1607	1606	1604	1007
45°	1310	1312	1314	1311	1304	1003
55°	865	846	834	845	859	775
65°	471	454	446	453	468	471
75°	193	189	180	183	185	206
85°	31	32	31	29	29	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1901.1	1901.1	1901.1	1901.1	1901.1
2.5°	1902.8	1899.9	1900.5	1900.5	1904.0
5°	1899.9	1897.5	1898.1	1897.5	1900.5
7.5°	1895.8	1893.4	1894.0	1893.4	1895.2
10°	1890.5	1888.1	1888.1	1887.0	1889.3
12.5°	1883.4	1880.5	1879.3	1878.7	1880.5
15°	1869.3	1867.6	1866.4	1865.2	1866.4
17.5°	1854.0	1851.1	1849.9	1847.6	1849.9
20°	1835.2	1831.1	1829.9	1828.2	1828.8
22.5°	1810.5	1807.0	1805.2	1802.3	1803.5
25°	1781.1	1777.6	1775.9	1772.9	1774.1
27.5°	1747.1	1744.7	1740.6	1738.2	1738.8
30°	1707.7	1705.3	1700.6	1699.4	1699.4
32.5°	1664.2	1661.2	1657.1	1655.9	1655.4
35°	1611.9	1611.3	1607.1	1606.0	1604.2
37.5°	1554.8	1553.7	1549.0	1547.8	1546.0
40°	1484.9	1483.7	1483.1	1480.8	1478.4
42.5°	1403.8	1405.5	1406.7	1402.0	1397.3
45°	1310.3	1312.1	1314.4	1310.9	1304.4
47.5°	1201.0	1208.0	1204.5	1206.8	1200.4
50°	1090.4	1090.4	1084.6	1086.9	1083.4
52.5°	974.6	965.2	958.2	962.9	967.6
55°	864.7	845.9	834.1	845.3	858.8
57.5°	759.5	737.1	715.4	733.0	749.5
60°	657.2	631.3	617.2	630.2	653.1
62.5°	560.2	541.4	527.3	537.3	556.7
65°	470.9	454.4	445.6	453.2	468.5
67.5°	389.1	378.0	369.2	375.6	387.4
70°	315.1	312.1	302.1	305.1	312.1
72.5°	247.5	246.9	238.1	240.4	244.5
75°	192.8	188.7	180.5	183.4	185.2
77.5°	136.4	138.1	130.5	132.3	132.3
80°	93.5	96.4	90.5	89.4	89.9
82.5°	59.4	59.4	58.8	58.2	56.4
85°	30.6	31.7	30.6	29.4	29.4
87.5°	11.8	11.8	11.8	11.2	10.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)