

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: P412410

Luminaire Tested: **22PD-50-PB1-L850**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412410
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-L850
Description: 5000 LUMEN 2X2 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 80 CRI, 5000 CCT LEDS
Light Source: -
Ballast/Driver: -

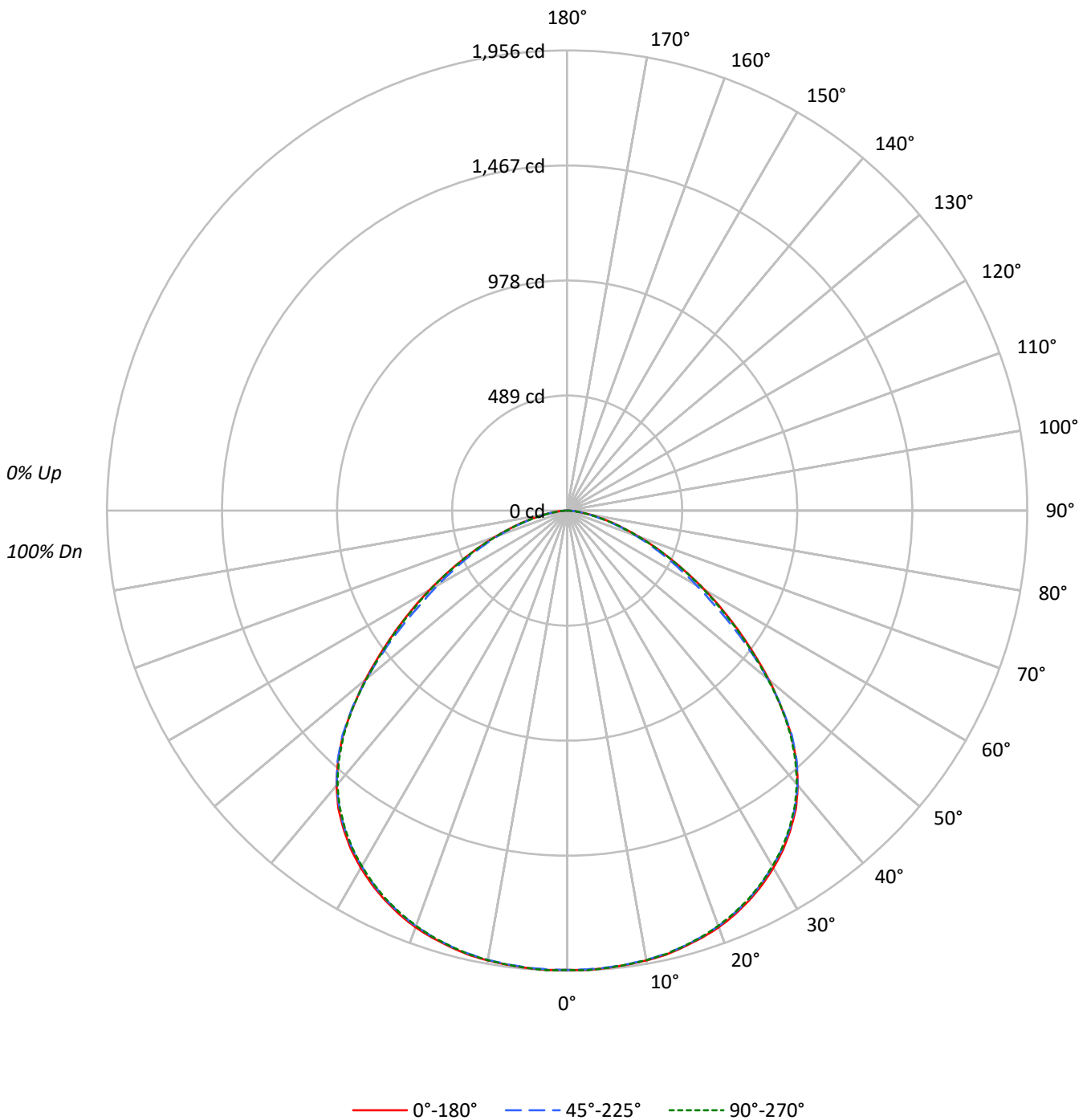
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5126.0 lumens
Efficiency: N/A
Efficacy: 120.6 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°	5254	5254	5254
5°	5271	5266	5273
10°	5305	5299	5302
15°	5349	5340	5340
20°	5398	5382	5379
25°	5431	5415	5410
30°	5450	5427	5423
35°	5438	5422	5412
40°	5357	5351	5334
45°	5121	5138	5098
50°	4688	4663	4658
55°	4167	4019	4138
60°	3633	3412	3610
65°	3079	2914	3064
70°	2546	2441	2522
75°	2059	1927	1978
80°	1488	1441	1432
85°	969	969	932



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.8	3.6
10°-20°	541.8	10.6
20°-30°	840.8	16.4
30°-40°	1031.0	20.1
40°-50°	1030.6	20.1
50°-60°	780.7	15.2
60°-70°	468.2	9.1
70°-80°	206.2	4.0
80°-90°	40.9	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°	1568.4	30.6
0°-40°	2599.4	50.7
0°-60°	4410.7	86.0
0°-90°	5126.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5126.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1952	1952	1952	1952	1952	
5°	1951	1949	1950	1949	1952	186
15°	1920	1918	1917	1916	1917	543
25°	1829	1826	1824	1821	1822	843
35°	1655	1655	1651	1649	1648	1034
45°	1346	1348	1350	1346	1340	1030
55°	888	869	857	868	882	796
65°	484	467	458	466	481	484
75°	198	194	185	188	190	211
85°	31	33	31	30	30	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1952.5	1952.5	1952.5	1952.5	1952.5
2.5°	1954.3	1951.3	1951.9	1951.9	1955.5
5°	1951.3	1948.9	1949.5	1948.9	1951.9
7.5°	1947.1	1944.6	1945.2	1944.6	1946.5
10°	1941.6	1939.2	1939.2	1938.0	1940.4
12.5°	1934.4	1931.4	1930.1	1929.5	1931.4
15°	1919.9	1918.1	1916.9	1915.7	1916.9
17.5°	1904.2	1901.2	1900.0	1897.5	1900.0
20°	1884.9	1880.6	1879.4	1877.6	1878.2
22.5°	1859.5	1855.9	1854.1	1851.1	1852.3
25°	1829.3	1825.7	1823.9	1820.9	1822.1
27.5°	1794.3	1791.9	1787.7	1785.3	1785.9
30°	1753.9	1751.4	1746.6	1745.4	1745.4
32.5°	1709.2	1706.2	1701.9	1700.7	1700.1
35°	1655.4	1654.8	1650.6	1649.4	1647.6
37.5°	1596.9	1595.7	1590.8	1589.6	1587.8
40°	1525.0	1523.8	1523.2	1520.8	1518.4
42.5°	1441.7	1443.5	1444.7	1439.9	1435.1
45°	1345.7	1347.5	1350.0	1346.3	1339.7
47.5°	1233.4	1240.7	1237.1	1239.5	1232.8
50°	1119.9	1119.9	1113.9	1116.3	1112.7
52.5°	1001.0	991.3	984.1	988.9	993.8
55°	888.1	868.8	856.7	868.2	882.1
57.5°	780.0	757.1	734.7	752.9	769.8
60°	675.0	648.4	633.9	647.2	670.8
62.5°	575.4	556.0	541.6	551.8	571.7
65°	483.6	466.7	457.6	465.5	481.2
67.5°	399.7	388.2	379.1	385.8	397.9
70°	323.6	320.6	310.3	313.3	320.6
72.5°	254.2	253.6	244.5	246.9	251.2
75°	198.0	193.8	185.3	188.4	190.2
77.5°	140.1	141.9	134.0	135.8	135.8
80°	96.0	99.0	93.0	91.8	92.4
82.5°	61.0	61.0	60.4	59.8	58.0
85°	31.4	32.6	31.4	30.2	30.2
87.5°	12.1	12.1	12.1	11.5	10.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)