

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: P413211

Luminaire Tested: **24PD-50-PC3-L850**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P413211
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-46)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24PD-50-PC3-L850
Description: 5000 LUMEN 2X4 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 80 CRI, 5000 CCT LEDS
Light Source: -
Ballast/Driver: -

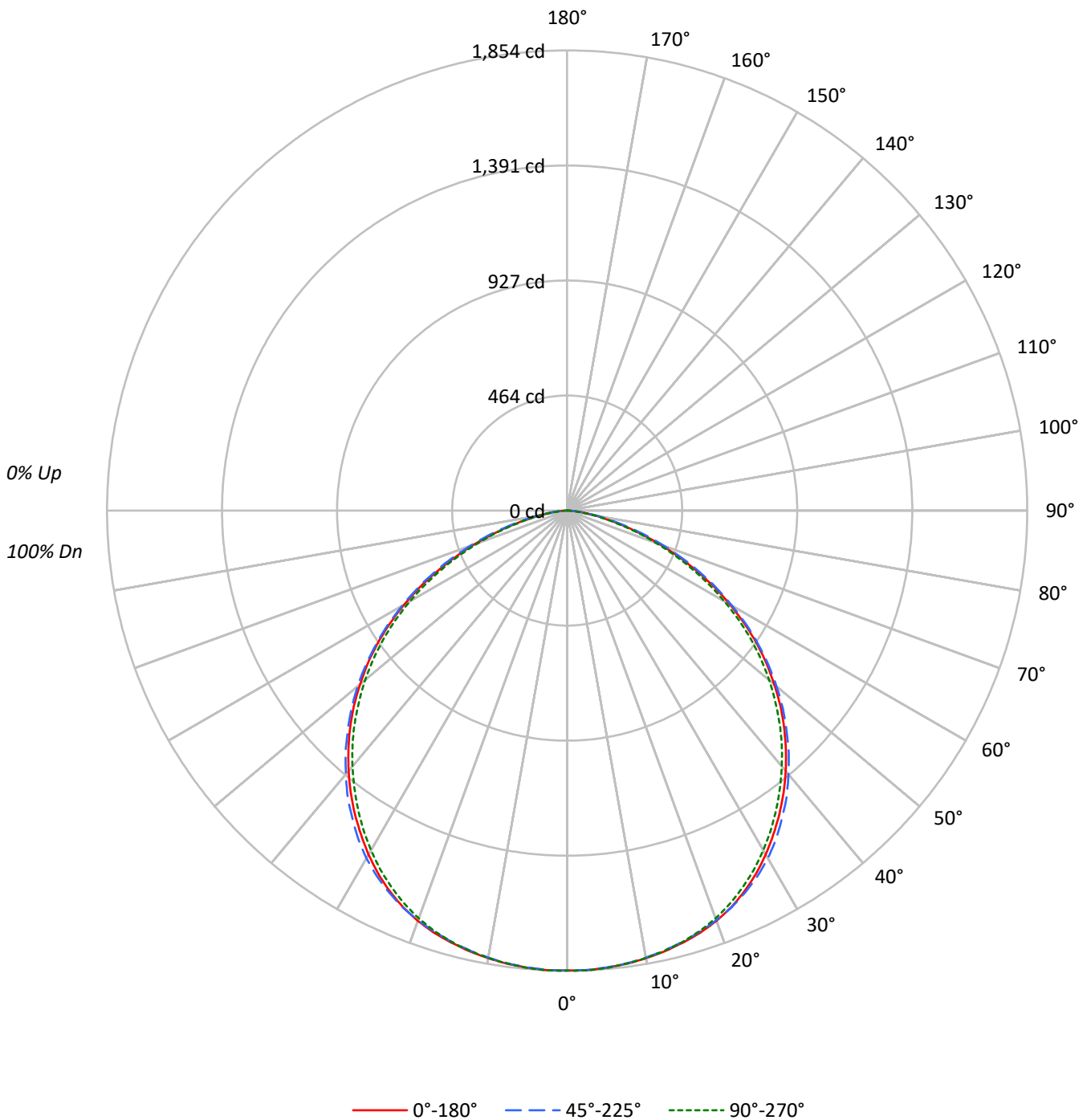
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5066.0 lumens
Efficiency: N/A
Efficacy: 135.1 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.26 / 1.38
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 37.5
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	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	99	96	93	95	92	90	91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77	83	79	75	80	77	74	72
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61
4	84	72	63	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	47	42	37	35
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	52	40	33	28	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2494	2494	2494
5°	2497	2496	2498
10°	2502	2499	2501
15°	2510	2505	2506
20°	2518	2515	2504
25°	2511	2521	2485
30°	2486	2513	2455
35°	2450	2481	2413
40°	2407	2436	2363
45°	2352	2378	2304
50°	2279	2305	2223
55°	2186	2205	2121
60°	2041	2064	1970
65°	1839	1885	1767
70°	1561	1630	1498
75°	1209	1297	1153
80°	899	939	815
85°	554	594	516



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.8	3.5
10°-20°	508.3	10.0
20°-30°	778.4	15.4
30°-40°	936.4	18.5
40°-50°	954.9	18.8
50°-60°	827.8	16.3
60°-70°	573.9	11.3
70°-80°	262.1	5.2
80°-90°	48.4	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°	1462.5	28.9
0°-40°	2398.9	47.4
0°-60°	4181.6	82.5
0°-90°	5066.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5066.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1853	1853	1853	1853	1853	
5°	1849	1849	1848	1847	1849	176
15°	1802	1802	1798	1797	1799	509
25°	1692	1696	1698	1683	1674	779
35°	1491	1507	1510	1491	1469	933
45°	1236	1252	1250	1233	1211	953
55°	932	938	940	917	904	830
65°	578	590	592	572	555	571
75°	233	245	250	241	222	254
85°	36	37	38	36	33	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1853.4	1853.4	1853.4	1853.4	1853.4
2.5°	1853.4	1853.4	1852.4	1851.3	1854.4
5°	1848.8	1848.8	1847.8	1846.7	1849.3
7.5°	1841.6	1841.1	1840.1	1839.0	1840.6
10°	1831.3	1830.8	1828.8	1828.2	1830.3
12.5°	1818.5	1818.0	1814.9	1814.9	1816.4
15°	1802.1	1801.5	1798.5	1796.9	1799.0
17.5°	1783.6	1783.1	1779.5	1775.4	1776.4
20°	1758.9	1758.9	1756.4	1750.2	1748.7
22.5°	1729.2	1730.7	1730.7	1718.9	1714.3
25°	1691.7	1696.3	1697.8	1683.0	1674.2
27.5°	1649.1	1656.3	1660.4	1641.4	1630.1
30°	1600.3	1612.1	1617.2	1596.7	1580.3
32.5°	1546.9	1561.8	1567.9	1547.9	1526.9
35°	1491.4	1507.4	1510.4	1490.9	1468.9
37.5°	1432.4	1448.8	1452.9	1435.5	1408.3
40°	1370.3	1386.7	1386.7	1372.3	1345.6
42.5°	1304.6	1322.0	1321.5	1304.1	1279.9
45°	1236.3	1251.7	1249.6	1232.7	1210.6
47.5°	1165.9	1175.7	1178.3	1158.2	1137.2
50°	1088.9	1098.7	1101.3	1078.7	1062.2
52.5°	1013.0	1019.1	1022.7	996.5	984.7
55°	931.8	937.5	940.0	916.9	904.1
57.5°	846.1	853.3	856.4	833.3	818.9
60°	758.3	766.0	767.0	745.5	732.1
62.5°	669.0	679.2	681.3	659.7	643.8
65°	577.6	589.9	592.0	571.9	555.0
67.5°	486.2	502.6	503.1	486.7	466.7
70°	396.9	414.8	414.3	400.5	380.9
72.5°	311.6	328.1	331.7	318.8	299.8
75°	232.6	245.4	249.5	241.3	221.8
77.5°	165.3	177.1	180.7	173.0	158.6
80°	116.0	116.5	121.2	115.0	105.2
82.5°	71.9	70.9	72.4	69.8	64.2
85°	35.9	37.0	38.5	36.5	33.4
87.5°	12.3	12.8	13.9	13.9	12.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)