

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: P413217

Luminaire Tested: **24PD-55-PC3-L830**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P413217
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-55-PC3-L830
Description: 5500 LUMEN 2X4 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 80 CRI, 3000 CCT LEDS
Light Source: -
Ballast/Driver: -

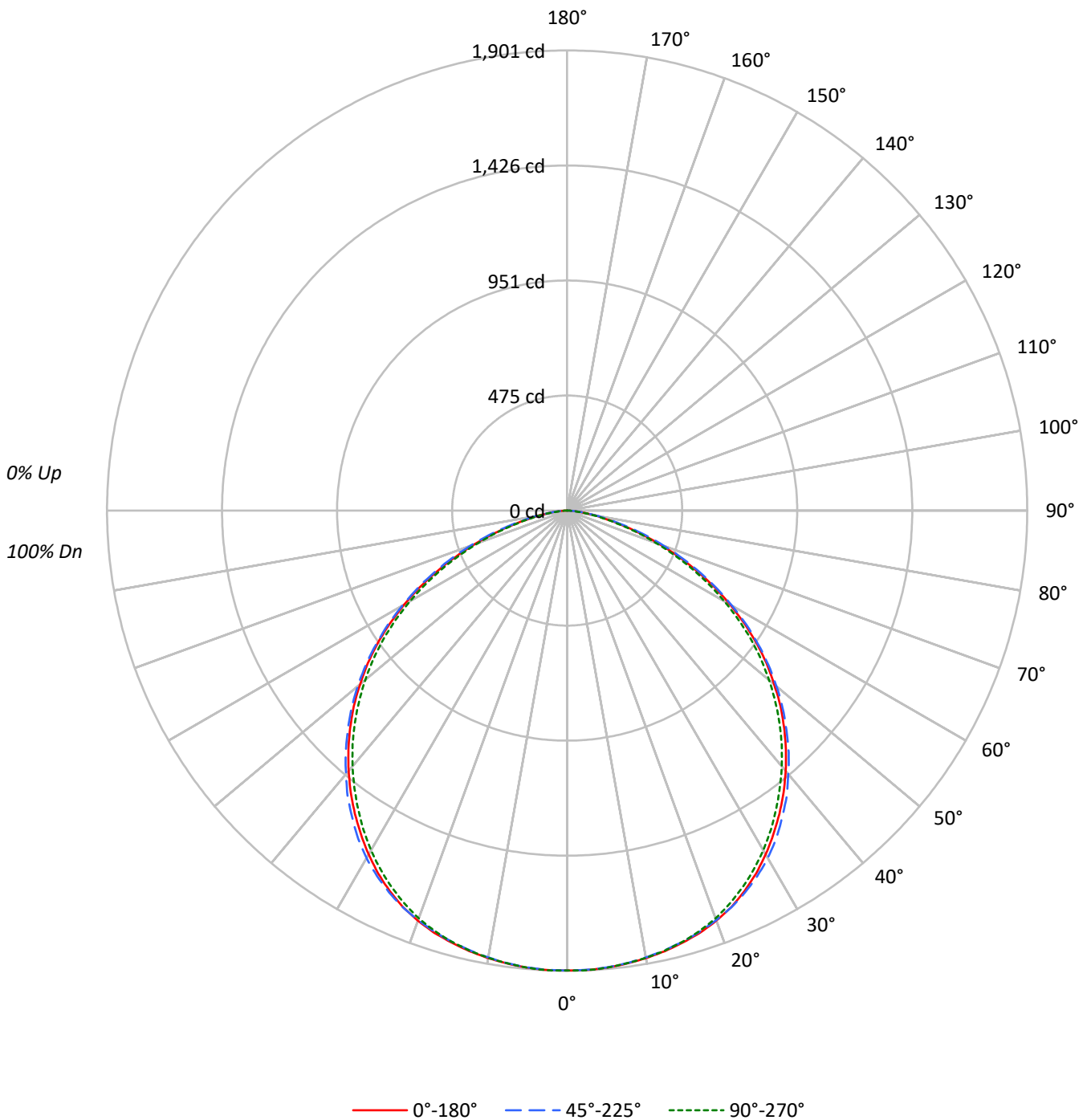
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5193.0 lumens
Efficiency: N/A
Efficacy: 124.5 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): 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	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°	2556	2556	2556
5°	2560	2558	2560
10°	2565	2561	2563
15°	2573	2568	2569
20°	2582	2578	2567
25°	2574	2584	2548
30°	2549	2576	2517
35°	2511	2543	2473
40°	2467	2497	2423
45°	2411	2437	2361
50°	2336	2363	2279
55°	2241	2260	2174
60°	2092	2116	2020
65°	1885	1932	1811
70°	1600	1671	1536
75°	1239	1330	1182
80°	921	962	836
85°	568	610	528



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.2	3.5
10°-20°	521.0	10.0
20°-30°	797.9	15.4
30°-40°	959.9	18.5
40°-50°	978.8	18.8
50°-60°	848.6	16.3
60°-70°	588.3	11.3
70°-80°	268.7	5.2
80°-90°	49.6	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°	1499.1	28.9
0°-40°	2459.0	47.4
0°-60°	4286.4	82.5
0°-90°	5193.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5193.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1900	1900	1900	1900	1900	
5°	1895	1895	1894	1893	1896	180
15°	1847	1847	1844	1842	1844	522
25°	1734	1739	1740	1725	1716	798
35°	1529	1545	1548	1528	1506	956
45°	1267	1283	1281	1264	1241	977
55°	955	961	964	940	927	851
65°	592	605	607	586	569	585
75°	238	252	256	247	227	261
85°	37	38	40	37	34	50
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1899.9	1899.9	1899.9	1899.9	1899.9
2.5°	1899.9	1899.9	1898.8	1897.8	1900.9
5°	1895.1	1895.1	1894.1	1893.0	1895.7
7.5°	1887.8	1887.2	1886.2	1885.1	1886.7
10°	1877.2	1876.7	1874.6	1874.1	1876.2
12.5°	1864.1	1863.6	1860.4	1860.4	1862.0
15°	1847.2	1846.7	1843.6	1842.0	1844.1
17.5°	1828.3	1827.8	1824.1	1819.9	1820.9
20°	1803.0	1803.0	1800.4	1794.1	1792.5
22.5°	1772.5	1774.1	1774.1	1762.0	1757.2
25°	1734.1	1738.8	1740.4	1725.1	1716.2
27.5°	1690.4	1697.8	1702.0	1682.5	1670.9
30°	1640.4	1652.5	1657.8	1636.7	1619.9
32.5°	1585.7	1600.9	1607.3	1586.7	1565.2
35°	1528.8	1545.2	1548.3	1528.3	1505.7
37.5°	1468.3	1485.2	1489.4	1471.5	1443.6
40°	1404.6	1421.5	1421.5	1406.7	1379.4
42.5°	1337.3	1355.2	1354.6	1336.7	1312.0
45°	1267.3	1283.1	1281.0	1263.6	1241.0
47.5°	1195.2	1205.2	1207.8	1187.3	1165.7
50°	1116.2	1126.2	1128.9	1105.7	1088.9
52.5°	1038.3	1044.7	1048.3	1021.5	1009.4
55°	955.2	961.0	963.6	939.9	926.8
57.5°	867.3	874.7	877.8	854.1	839.4
60°	777.3	785.2	786.3	764.2	750.5
62.5°	685.7	696.3	698.4	676.3	660.0
65°	592.1	604.7	606.8	586.3	568.9
67.5°	498.4	515.2	515.8	498.9	478.4
70°	406.8	425.2	424.7	410.5	390.5
72.5°	319.5	336.3	340.0	326.8	307.3
75°	238.4	251.6	255.8	247.4	227.4
77.5°	169.5	181.6	185.2	177.4	162.6
80°	118.9	119.5	124.2	117.9	107.9
82.5°	73.7	72.6	74.2	71.6	65.8
85°	36.8	37.9	39.5	37.4	34.2
87.5°	12.6	13.2	14.2	14.2	12.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)