

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: P413209

Luminaire Tested: **24PD-50-PC3-L835**

Issue Date: 9/15/2020



**Test Information**

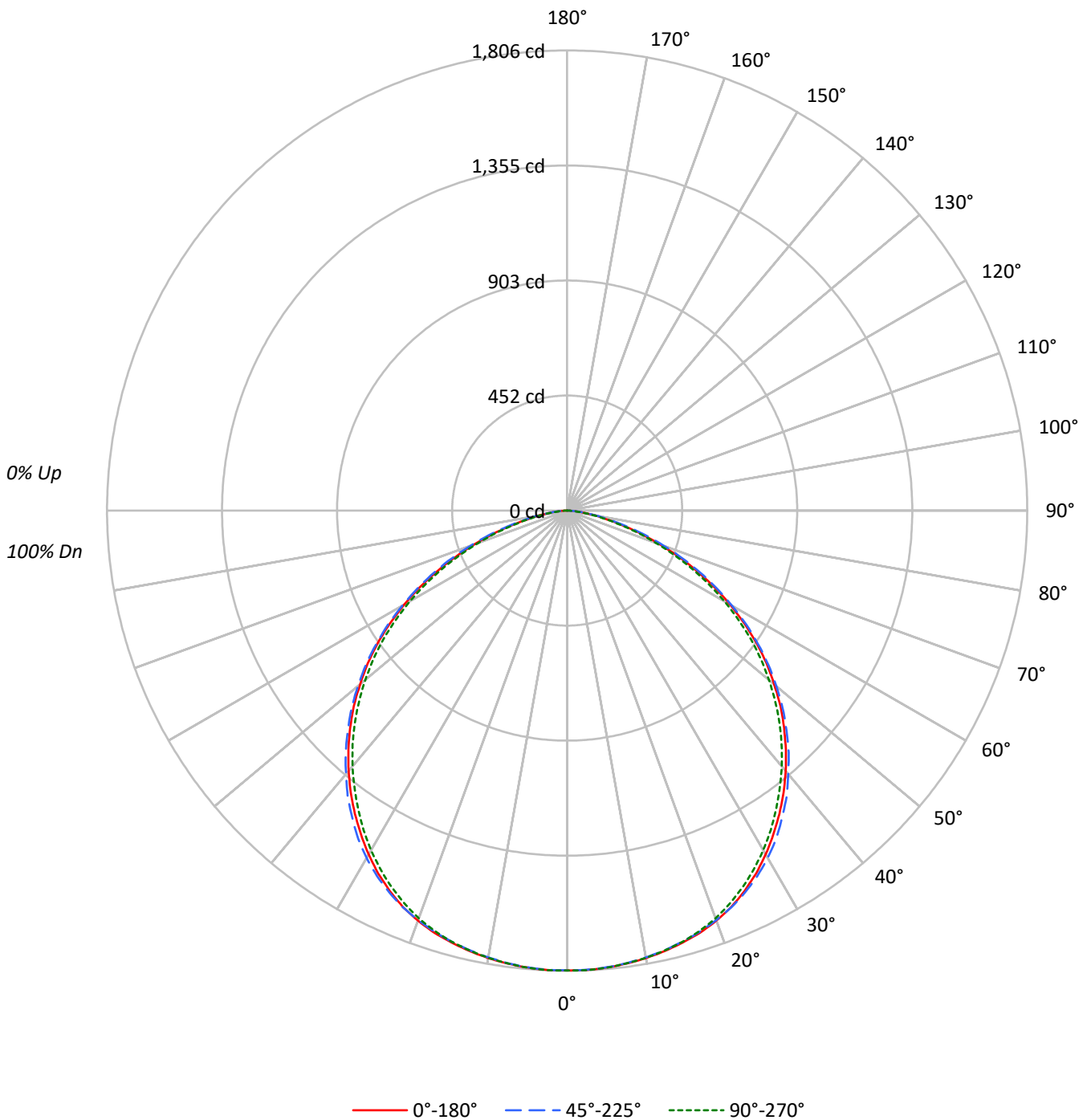
Test Method: LM-79-08  
Report Number: P413209  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-46)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24PD-50-PC3-L835  
Description: 5000 LUMEN 2X4 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 80 CRI, 3500 CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4933.0 lumens  
Efficiency: N/A  
Efficacy: 131.5 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): 37.5  
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	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°	2428	2428	2428
5°	2431	2430	2432
10°	2436	2433	2435
15°	2444	2439	2440
20°	2452	2449	2438
25°	2446	2454	2420
30°	2421	2447	2391
35°	2385	2416	2349
40°	2344	2372	2301
45°	2291	2315	2243
50°	2219	2245	2165
55°	2129	2147	2065
60°	1987	2010	1918
65°	1791	1835	1720
70°	1520	1587	1459
75°	1177	1263	1123
80°	876	914	794
85°	540	579	502



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	171.2	3.5
10°-20°	494.9	10.0
20°-30°	758.0	15.4
30°-40°	911.8	18.5
40°-50°	929.8	18.8
50°-60°	806.1	16.3
60°-70°	558.8	11.3
70°-80°	255.3	5.2
80°-90°	47.1	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°	1424.1	28.9
0°-40°	2335.9	47.4
0°-60°	4071.8	82.5
0°-90°	4933.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4933.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1805	1805	1805	1805	1805	
5°	1800	1800	1799	1798	1801	171
15°	1755	1754	1751	1750	1752	496
25°	1647	1652	1653	1639	1630	758
35°	1452	1468	1471	1452	1430	908
45°	1204	1219	1217	1200	1179	928
55°	907	913	915	893	880	809
65°	562	574	576	557	540	556
75°	226	239	243	235	216	248
85°	35	36	38	36	32	47
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1804.7	1804.7	1804.7	1804.7	1804.7
2.5°	1804.7	1804.7	1803.7	1802.7	1805.7
5°	1800.2	1800.2	1799.2	1798.2	1800.7
7.5°	1793.2	1792.7	1791.7	1790.7	1792.2
10°	1783.2	1782.7	1780.7	1780.2	1782.2
12.5°	1770.7	1770.2	1767.2	1767.2	1768.7
15°	1754.8	1754.3	1751.3	1749.8	1751.8
17.5°	1736.8	1736.3	1732.8	1728.8	1729.8
20°	1712.8	1712.8	1710.3	1704.3	1702.8
22.5°	1683.8	1685.3	1685.3	1673.8	1669.3
25°	1647.3	1651.8	1653.3	1638.8	1630.3
27.5°	1605.8	1612.8	1616.8	1598.3	1587.3
30°	1558.3	1569.8	1574.8	1554.8	1538.8
32.5°	1506.3	1520.8	1526.8	1507.3	1486.8
35°	1452.3	1467.8	1470.8	1451.8	1430.3
37.5°	1394.8	1410.8	1414.8	1397.8	1371.3
40°	1334.3	1350.3	1350.3	1336.3	1310.3
42.5°	1270.3	1287.3	1286.8	1269.8	1246.3
45°	1203.8	1218.8	1216.8	1200.3	1178.8
47.5°	1135.3	1144.8	1147.3	1127.8	1107.3
50°	1060.3	1069.8	1072.3	1050.4	1034.4
52.5°	986.4	992.4	995.9	970.4	958.9
55°	907.4	912.9	915.4	892.9	880.4
57.5°	823.9	830.9	833.9	811.4	797.4
60°	738.4	745.9	746.9	725.9	712.9
62.5°	651.4	661.4	663.4	642.4	626.9
65°	562.4	574.4	576.4	556.9	540.4
67.5°	473.4	489.4	489.9	473.9	454.4
70°	386.4	403.9	403.4	389.9	370.9
72.5°	303.5	319.5	323.0	310.5	292.0
75°	226.5	239.0	243.0	235.0	216.0
77.5°	161.0	172.5	176.0	168.5	154.5
80°	113.0	113.5	118.0	112.0	102.5
82.5°	70.0	69.0	70.5	68.0	62.5
85°	35.0	36.0	37.5	35.5	32.5
87.5°	12.0	12.5	13.5	13.5	12.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)