

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: P413219

Luminaire Tested: **24PD-55-PC3-L840**

Issue Date: 9/15/2020



**Test Information**

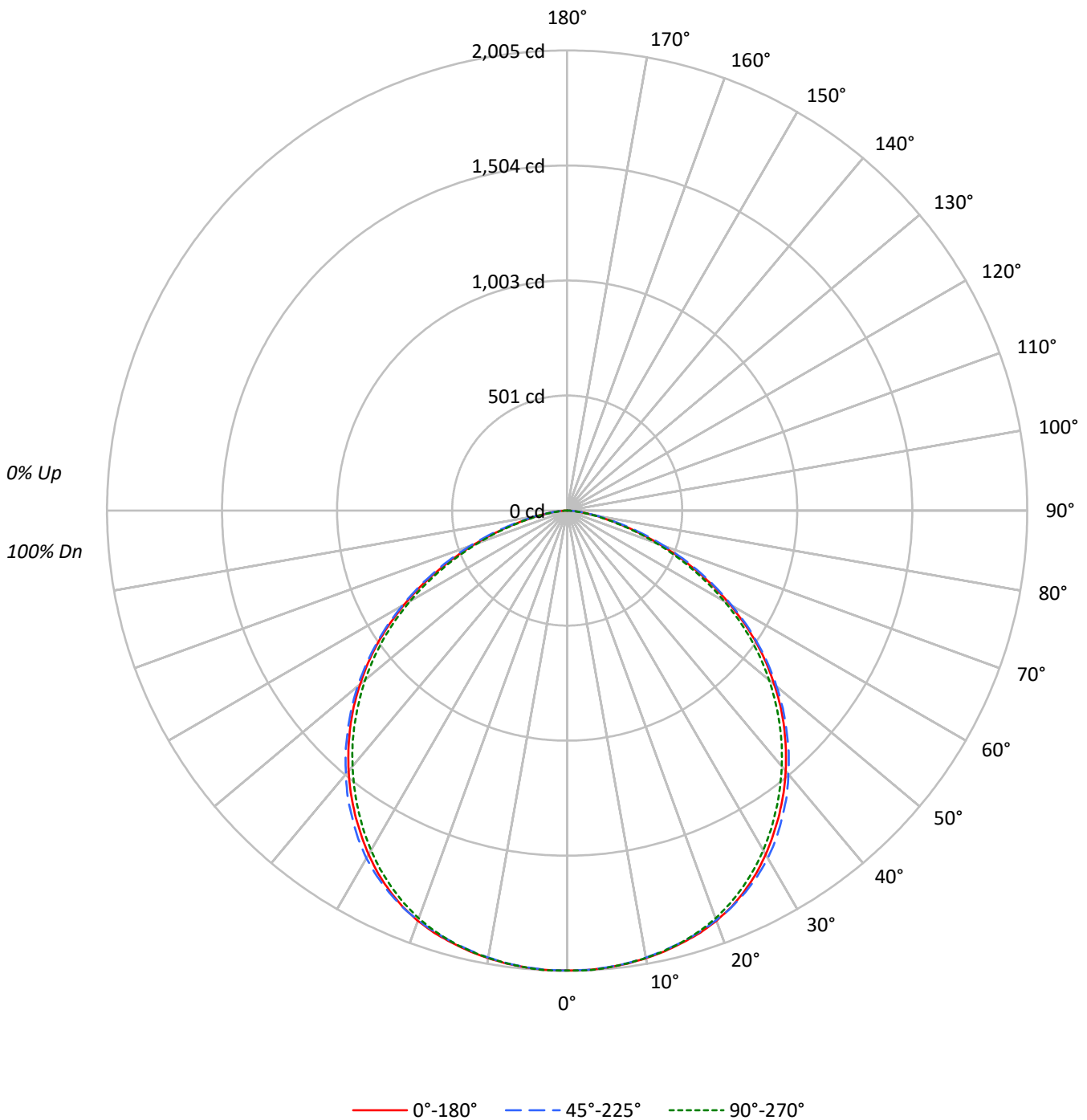
Test Method: LM-79-08  
Report Number: P413219  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-46)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24PD-55-PC3-L840  
Description: 5500 LUMEN 2X4 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 80 CRI, 4000 CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5478.0 lumens  
Efficiency: N/A  
Efficacy: 131.4 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 (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	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					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°	2696	2696	2696
5°	2700	2699	2701
10°	2706	2702	2704
15°	2714	2709	2710
20°	2723	2719	2707
25°	2716	2726	2688
30°	2688	2717	2655
35°	2649	2683	2609
40°	2602	2634	2556
45°	2544	2571	2491
50°	2465	2493	2404
55°	2364	2384	2293
60°	2207	2232	2130
65°	1989	2038	1911
70°	1688	1762	1620
75°	1307	1403	1247
80°	972	1015	882
85°	601	642	557



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	190.1	3.5
10°-20°	549.6	10.0
20°-30°	841.7	15.4
30°-40°	1012.6	18.5
40°-50°	1032.5	18.8
50°-60°	895.1	16.3
60°-70°	620.6	11.3
70°-80°	283.4	5.2
80°-90°	52.4	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°	1581.4	28.9
0°-40°	2594.0	47.4
0°-60°	4521.6	82.5
0°-90°	5478.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5478.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2004	2004	2004	2004	2004	
5°	1999	1999	1998	1997	2000	190
15°	1949	1948	1945	1943	1945	551
25°	1829	1834	1836	1820	1810	842
35°	1613	1630	1633	1612	1588	1008
45°	1337	1354	1351	1333	1309	1030
55°	1008	1014	1016	992	978	898
65°	625	638	640	618	600	617
75°	252	265	270	261	240	275
85°	39	40	42	39	36	52
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2004.1	2004.1	2004.1	2004.1	2004.1
2.5°	2004.1	2004.1	2003.0	2001.9	2005.2
5°	1999.1	1999.1	1998.0	1996.9	1999.7
7.5°	1991.4	1990.8	1989.7	1988.6	1990.3
10°	1980.3	1979.7	1977.5	1976.9	1979.1
12.5°	1966.4	1965.8	1962.5	1962.5	1964.2
15°	1948.6	1948.1	1944.7	1943.1	1945.3
17.5°	1928.6	1928.1	1924.2	1919.7	1920.9
20°	1902.0	1902.0	1899.2	1892.5	1890.9
22.5°	1869.8	1871.4	1871.4	1858.7	1853.7
25°	1829.3	1834.3	1835.9	1819.8	1810.4
27.5°	1783.2	1791.0	1795.4	1774.9	1762.6
30°	1730.4	1743.2	1748.8	1726.6	1708.8
32.5°	1672.7	1688.8	1695.5	1673.8	1651.0
35°	1612.7	1630.0	1633.3	1612.2	1588.3
37.5°	1548.9	1566.7	1571.1	1552.2	1522.8
40°	1481.7	1499.5	1499.5	1483.9	1455.1
42.5°	1410.7	1429.5	1429.0	1410.1	1384.0
45°	1336.8	1353.5	1351.3	1332.9	1309.1
47.5°	1260.8	1271.3	1274.1	1252.4	1229.7
50°	1177.5	1188.0	1190.8	1166.4	1148.6
52.5°	1095.3	1102.0	1105.9	1077.6	1064.8
55°	1007.6	1013.7	1016.5	991.5	977.6
57.5°	914.9	922.7	926.0	901.0	885.5
60°	820.0	828.3	829.4	806.1	791.7
62.5°	723.4	734.5	736.7	713.4	696.2
65°	624.6	637.9	640.1	618.4	600.1
67.5°	525.7	543.5	544.1	526.3	504.6
70°	429.1	448.6	448.0	433.0	411.9
72.5°	337.0	354.7	358.6	344.8	324.2
75°	251.5	265.4	269.8	260.9	239.8
77.5°	178.8	191.5	195.4	187.1	171.5
80°	125.5	126.0	131.0	124.4	113.8
82.5°	77.7	76.6	78.3	75.5	69.4
85°	38.9	40.0	41.6	39.4	36.1
87.5°	13.3	13.9	15.0	15.0	13.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)