

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: P413220

Luminaire Tested: **24PD-55-PC3-L850**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P413220
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-L850
Description: 5500 LUMEN 2X4 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 80 CRI, 5000 CCT LEDS
Light Source: -
Ballast/Driver: -

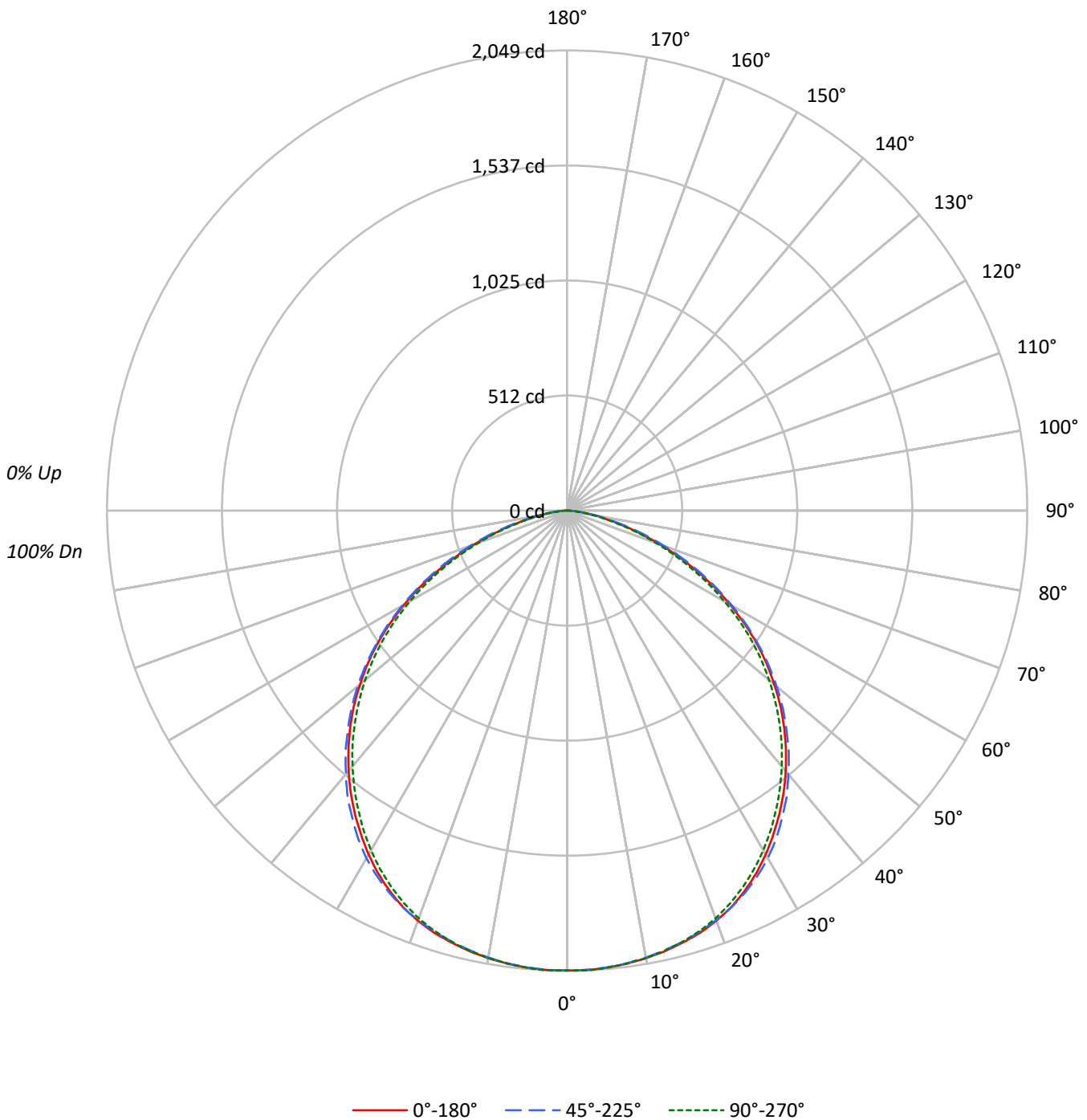
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5598.0 lumens
Efficiency: N/A
Efficacy: 134.2 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	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°	2756	2756	2756
5°	2759	2758	2760
10°	2765	2761	2763
15°	2774	2768	2769
20°	2783	2779	2767
25°	2775	2785	2746
30°	2747	2777	2713
35°	2707	2742	2666
40°	2660	2691	2612
45°	2599	2628	2545
50°	2519	2547	2457
55°	2415	2437	2344
60°	2255	2281	2177
65°	2032	2082	1953
70°	1725	1801	1656
75°	1336	1433	1274
80°	993	1038	901
85°	613	656	570



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.3	3.5
10°-20°	561.6	10.0
20°-30°	860.1	15.4
30°-40°	1034.7	18.5
40°-50°	1055.1	18.8
50°-60°	914.7	16.3
60°-70°	634.2	11.3
70°-80°	289.6	5.2
80°-90°	53.5	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°	1616.0	28.9
0°-40°	2650.8	47.4
0°-60°	4620.7	82.5
0°-90°	5598.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5598.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2048	2048	2048	2048	2048	
5°	2043	2043	2042	2041	2044	194
15°	1991	1991	1987	1986	1988	563
25°	1869	1874	1876	1860	1850	861
35°	1648	1666	1669	1648	1623	1031
45°	1366	1383	1381	1362	1338	1053
55°	1030	1036	1039	1013	999	917
65°	638	652	654	632	613	631
75°	257	271	276	267	245	281
85°	40	41	42	40	37	54
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2048.0	2048.0	2048.0	2048.0	2048.0
2.5°	2048.0	2048.0	2046.9	2045.8	2049.2
5°	2042.9	2042.9	2041.8	2040.7	2043.5
7.5°	2035.0	2034.4	2033.3	2032.1	2033.9
10°	2023.6	2023.1	2020.8	2020.2	2022.5
12.5°	2009.5	2008.9	2005.5	2005.5	2007.2
15°	1991.3	1990.7	1987.3	1985.6	1987.9
17.5°	1970.9	1970.3	1966.3	1961.8	1962.9
20°	1943.6	1943.6	1940.8	1934.0	1932.3
22.5°	1910.7	1912.4	1912.4	1899.4	1894.3
25°	1869.3	1874.4	1876.1	1859.7	1850.0
27.5°	1822.2	1830.2	1834.7	1813.7	1801.2
30°	1768.3	1781.4	1787.1	1764.4	1746.2
32.5°	1709.3	1725.8	1732.6	1710.5	1687.2
35°	1648.1	1665.7	1669.1	1647.5	1623.1
37.5°	1582.8	1601.0	1605.5	1586.2	1556.2
40°	1514.2	1532.3	1532.3	1516.5	1487.0
42.5°	1441.6	1460.9	1460.3	1441.0	1414.3
45°	1366.1	1383.1	1380.9	1362.1	1337.7
47.5°	1288.4	1299.2	1302.0	1279.9	1256.6
50°	1203.3	1214.1	1216.9	1191.9	1173.8
52.5°	1119.3	1126.1	1130.1	1101.2	1088.1
55°	1029.7	1035.9	1038.8	1013.2	999.1
57.5°	934.9	942.9	946.3	920.8	904.9
60°	837.9	846.4	847.6	823.8	809.0
62.5°	739.2	750.6	752.8	729.0	711.4
65°	638.2	651.9	654.1	632.0	613.3
67.5°	537.3	555.4	556.0	537.8	515.7
70°	438.5	458.4	457.8	442.5	421.0
72.5°	344.4	362.5	366.5	352.3	331.3
75°	257.0	271.2	275.7	266.6	245.1
77.5°	182.7	195.7	199.7	191.2	175.3
80°	128.2	128.8	133.9	127.1	116.3
82.5°	79.4	78.3	80.0	77.2	70.9
85°	39.7	40.8	42.5	40.3	36.9
87.5°	13.6	14.2	15.3	15.3	13.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)