

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: P412883

Luminaire Tested: **24PD-55-PP3-L950**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412883
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-47)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24PD-55-PP3-L950
Description: 5500 LUMEN 2X4 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 90 CRI, 5000 CCT LEDS
Light Source: -
Ballast/Driver: -

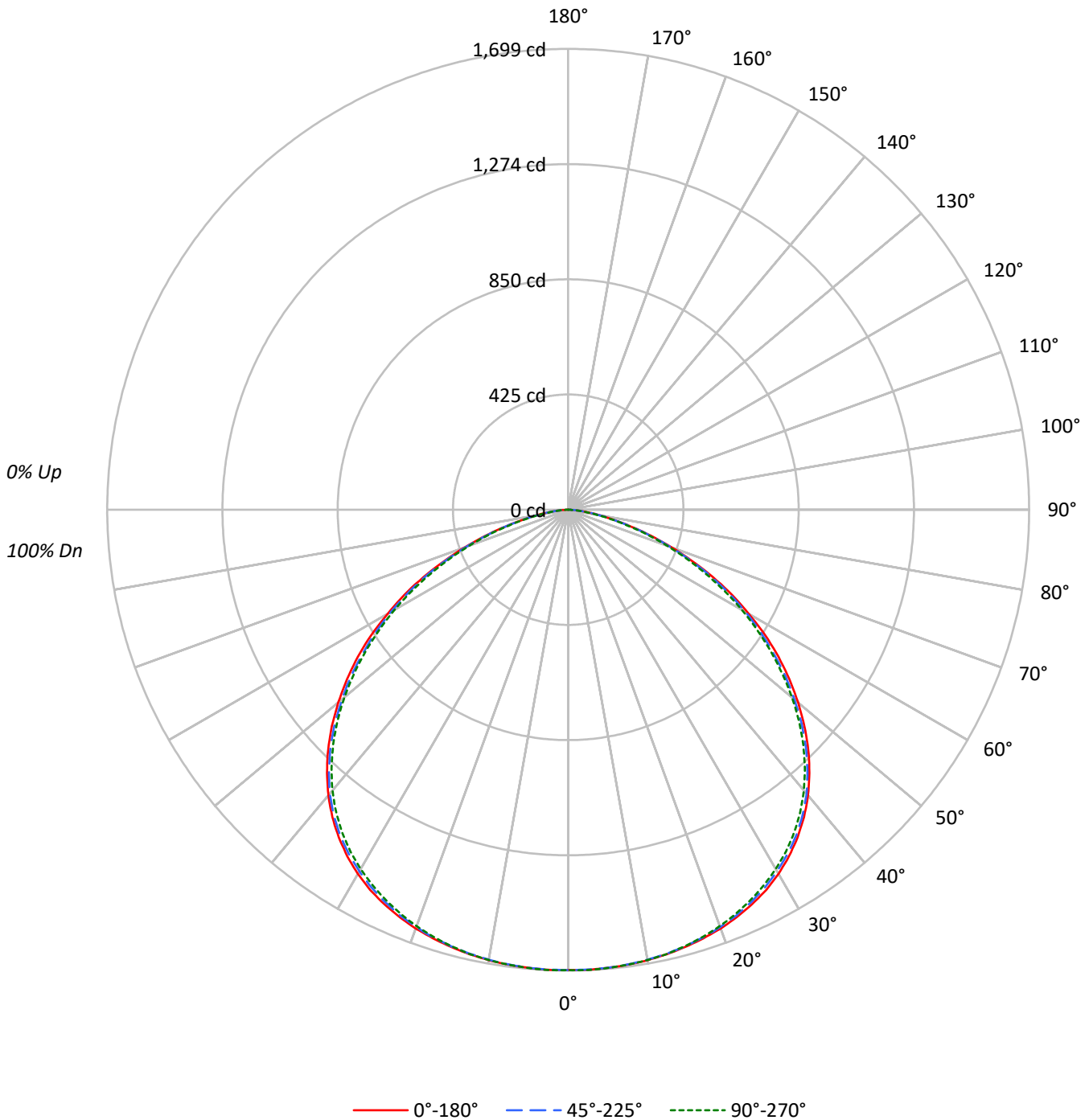
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4939.0 lumens
Efficiency: N/A
Efficacy: 118.4 lumens/watt
Spacing Criteria (0/90/45): 1.35 / 1.33 / 1.43
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	98	95	93		95	92	90		91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77		83	79	75		80	77	74	71
3	91	81	73	66	89	79	72	66	76	70	65		73	68	64		71	66	63	60
4	83	72	63	56	81	70	62	56	68	61	55		65	59	54		63	58	54	52
5	77	64	55	49	75	63	54	48	61	53	48		59	52	47		57	51	47	45
6	71	58	49	42	69	57	48	42	55	47	42		53	46	41		52	46	41	39
7	66	52	43	37	64	51	43	37	50	42	37		48	42	37		47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33		44	38	33		43	37	32	31
9	57	44	35	30	55	43	35	30	42	35	30		41	34	29		40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27		38	31	27		37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2284	2284	2284
5°	2290	2289	2291
10°	2304	2302	2303
15°	2325	2321	2320
20°	2353	2345	2339
25°	2382	2370	2359
30°	2409	2392	2376
35°	2422	2407	2385
40°	2415	2400	2374
45°	2381	2357	2331
50°	2315	2278	2254
55°	2220	2166	2138
60°	2068	2032	1991
65°	1875	1837	1784
70°	1600	1571	1520
75°	1250	1237	1177
80°	922	883	834
85°	556	556	519



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.5	3.3
10°-20°	471.2	9.5
20°-30°	736.5	14.9
30°-40°	915.4	18.5
40°-50°	953.8	19.3
50°-60°	827.6	16.8
60°-70°	569.1	11.5
70°-80°	256.8	5.2
80°-90°	47.0	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°	1369.3	27.7
0°-40°	2284.7	46.3
0°-60°	4066.0	82.3
0°-90°	4939.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4939.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1697	1697	1697	1697	1697	
5°	1695	1696	1695	1693	1696	162
15°	1669	1669	1666	1665	1665	472
25°	1605	1604	1596	1590	1589	740
35°	1474	1474	1465	1457	1452	921
45°	1251	1252	1239	1230	1225	963
55°	946	941	924	913	912	843
65°	589	586	577	563	560	581
75°	240	241	238	232	226	262
85°	36	36	36	36	34	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1697.4	1697.4	1697.4	1697.4	1697.4
2.5°	1697.9	1697.9	1696.9	1695.4	1698.9
5°	1695.4	1695.9	1694.9	1693.4	1695.9
7.5°	1692.0	1692.5	1691.0	1689.5	1691.5
10°	1686.5	1686.0	1684.6	1683.6	1686.0
12.5°	1678.6	1678.1	1676.7	1675.7	1677.6
15°	1668.8	1668.8	1666.3	1664.8	1665.3
17.5°	1656.9	1656.9	1653.5	1650.0	1651.0
20°	1643.1	1642.6	1637.7	1634.2	1633.7
22.5°	1625.8	1625.8	1618.9	1614.5	1613.0
25°	1604.6	1604.1	1596.2	1589.8	1588.8
27.5°	1580.4	1579.4	1570.0	1563.6	1561.2
30°	1550.3	1549.3	1539.4	1532.5	1529.6
32.5°	1514.8	1516.2	1504.9	1497.0	1494.0
35°	1474.3	1474.3	1465.4	1457.0	1452.1
37.5°	1427.9	1427.9	1419.5	1411.1	1405.2
40°	1375.1	1375.6	1366.7	1356.3	1351.4
42.5°	1315.9	1316.8	1305.0	1296.6	1291.2
45°	1251.2	1251.7	1238.9	1229.5	1225.0
47.5°	1181.1	1180.1	1165.8	1157.9	1153.5
50°	1106.1	1104.1	1088.3	1080.9	1077.0
52.5°	1027.6	1023.7	1009.8	999.0	995.5
55°	946.2	940.7	923.5	912.6	911.6
57.5°	861.3	854.9	840.6	830.2	826.2
60°	768.5	767.0	755.2	742.8	739.9
62.5°	681.6	677.2	666.8	652.0	650.5
65°	588.8	586.4	577.0	563.2	560.2
67.5°	493.1	495.5	487.6	475.3	471.4
70°	406.7	408.2	399.3	387.9	386.5
72.5°	319.8	322.3	314.9	307.5	306.0
75°	240.4	241.4	237.9	231.5	226.5
77.5°	170.8	174.2	170.3	165.8	161.9
80°	119.0	113.5	114.0	112.0	107.6
82.5°	71.6	69.1	68.6	66.6	64.7
85°	36.0	35.5	36.0	35.5	33.6
87.5°	11.8	12.8	13.3	13.3	12.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)