

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: P234061

Luminaire Tested: **14GR-LD5-50-A-UNV-L930-CD1-U**

Issue Date: 3/12/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P234061  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33314)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/12/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14GR-LD5-50-A-UNV-L930-CD1-U  
Description: METALUX 1X4 GRLED TROFFER  
WITH A LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3994.9 lumens  
Efficiency: N/A  
Efficacy: 88.6 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.21 / 1.26  
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')  
CIE Type: Direct

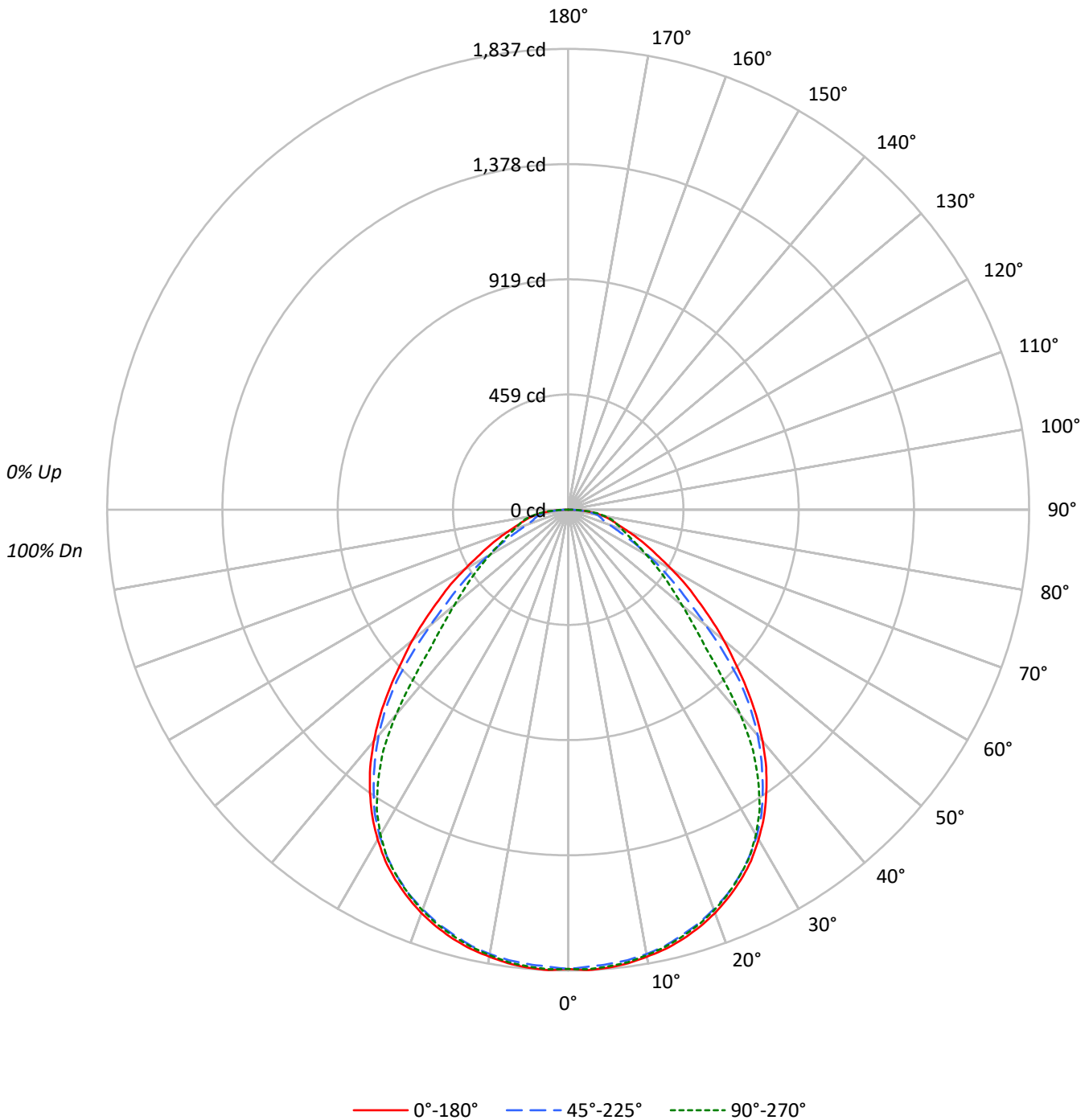
Input Watts (W): 45.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	94	88	83	99	92	86	82	88	84	80	85	81	78	82	79	76	74
3	93	84	76	71	91	82	75	70	79	74	69	77	72	68	74	70	66	64
4	86	75	67	61	84	74	67	61	72	65	60	69	64	59	67	62	58	56
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46	44
7	69	57	48	43	67	56	48	43	54	47	42	53	47	42	52	46	42	40
8	65	52	44	38	63	51	44	38	50	43	38	49	43	38	48	42	38	36
9	61	48	40	35	59	47	40	35	46	39	35	45	39	35	44	39	34	33
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	36	31	30

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	6168	6168	6168
5°	6198	6151	6182
10°	6191	6153	6168
15°	6179	6124	6143
20°	6135	6079	6095
25°	6054	5996	5999
30°	5906	5845	5820
35°	5664	5561	5435
40°	5301	5167	4702
45°	4789	4607	3675
50°	4246	3741	3108
55°	3707	3069	2742
60°	3214	2526	2420
65°	2818	2027	2234
70°	2513	1719	2248
75°	2451	1812	2513
80°	2719	2288	2882
85°	2834	2440	3371



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	173.7	4.3
10°-20°	497.6	12.5
20°-30°	744.3	18.6
30°-40°	840.2	21.0
40°-50°	712.8	17.8
50°-60°	482.3	12.1
60°-70°	287.9	7.2
70°-80°	180.3	4.5
80°-90°	75.9	1.9
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°	1415.6	35.4
0°-40°	2255.8	56.5
0°-60°	3450.9	86.4
0°-90°	3994.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3994.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1831	1831	1831	1831	1831	
5°	1832	1827	1819	1832	1828	174
15°	1771	1768	1755	1768	1761	499
25°	1628	1623	1613	1620	1614	749
35°	1377	1368	1352	1340	1321	858
45°	1005	1008	967	829	771	774
55°	631	601	522	468	467	568
65°	354	293	254	271	280	353
75°	188	168	139	184	193	203
85°	73	70	63	82	87	79
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1830.6	1830.6	1830.6	1830.6	1830.6
2.5°	1837.1	1831.6	1823.3	1834.4	1833.4
5°	1832.5	1826.9	1818.6	1831.6	1827.8
7.5°	1824.2	1819.5	1811.1	1823.3	1819.5
10°	1809.3	1805.6	1798.2	1808.4	1802.8
12.5°	1793.5	1790.7	1781.4	1790.7	1785.2
15°	1771.3	1767.6	1755.4	1767.6	1761.1
17.5°	1743.4	1738.8	1728.6	1738.8	1733.2
20°	1711.0	1705.4	1695.2	1705.4	1699.8
22.5°	1672.0	1667.3	1658.1	1667.3	1659.9
25°	1628.4	1622.8	1612.6	1620.0	1613.5
27.5°	1578.2	1570.9	1561.6	1567.1	1563.4
30°	1518.0	1508.7	1502.2	1502.2	1495.7
32.5°	1452.1	1445.6	1434.5	1427.9	1419.6
35°	1376.9	1367.7	1351.9	1339.8	1321.3
37.5°	1296.2	1285.1	1265.6	1235.0	1209.9
40°	1205.2	1191.4	1174.6	1114.4	1068.9
42.5°	1107.9	1105.1	1076.3	973.3	910.2
45°	1004.9	1008.5	966.8	828.6	771.1
47.5°	901.0	913.9	837.9	702.3	672.7
50°	810.0	814.6	713.6	609.6	592.9
52.5°	716.3	708.9	608.6	536.3	524.2
55°	631.0	601.3	522.4	467.6	466.7
57.5°	555.8	501.1	446.3	405.5	410.1
60°	476.9	415.7	374.8	352.6	359.1
62.5°	407.4	348.8	312.7	306.2	317.3
65°	353.5	293.2	254.2	270.9	280.2
67.5°	302.5	251.4	206.9	246.8	250.5
70°	255.1	218.0	174.5	227.3	228.2
72.5°	216.2	193.0	151.2	206.0	208.7
75°	188.3	167.9	139.2	183.7	193.0
77.5°	165.2	143.8	129.0	158.7	174.5
80°	140.1	116.0	117.9	132.7	148.5
82.5°	107.7	90.0	93.7	109.5	120.6
85°	73.3	69.6	63.1	81.7	87.2
87.5°	39.0	37.1	32.5	46.4	43.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)