

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: P257166

Luminaire Tested: **14GR-LD5-50-F125-UNV-L950-CD1-U**

Issue Date: 3/12/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P257166  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33313)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/12/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14GR-LD5-50-F125-UNV-L950-CD1-U  
Description: METALUX 1X4 GRLED TROFFER  
WITH F125 LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4955.9 lumens  
Efficiency: N/A  
Efficacy: 109.9 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.16 / 1.24  
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')  
CIE Type: Direct

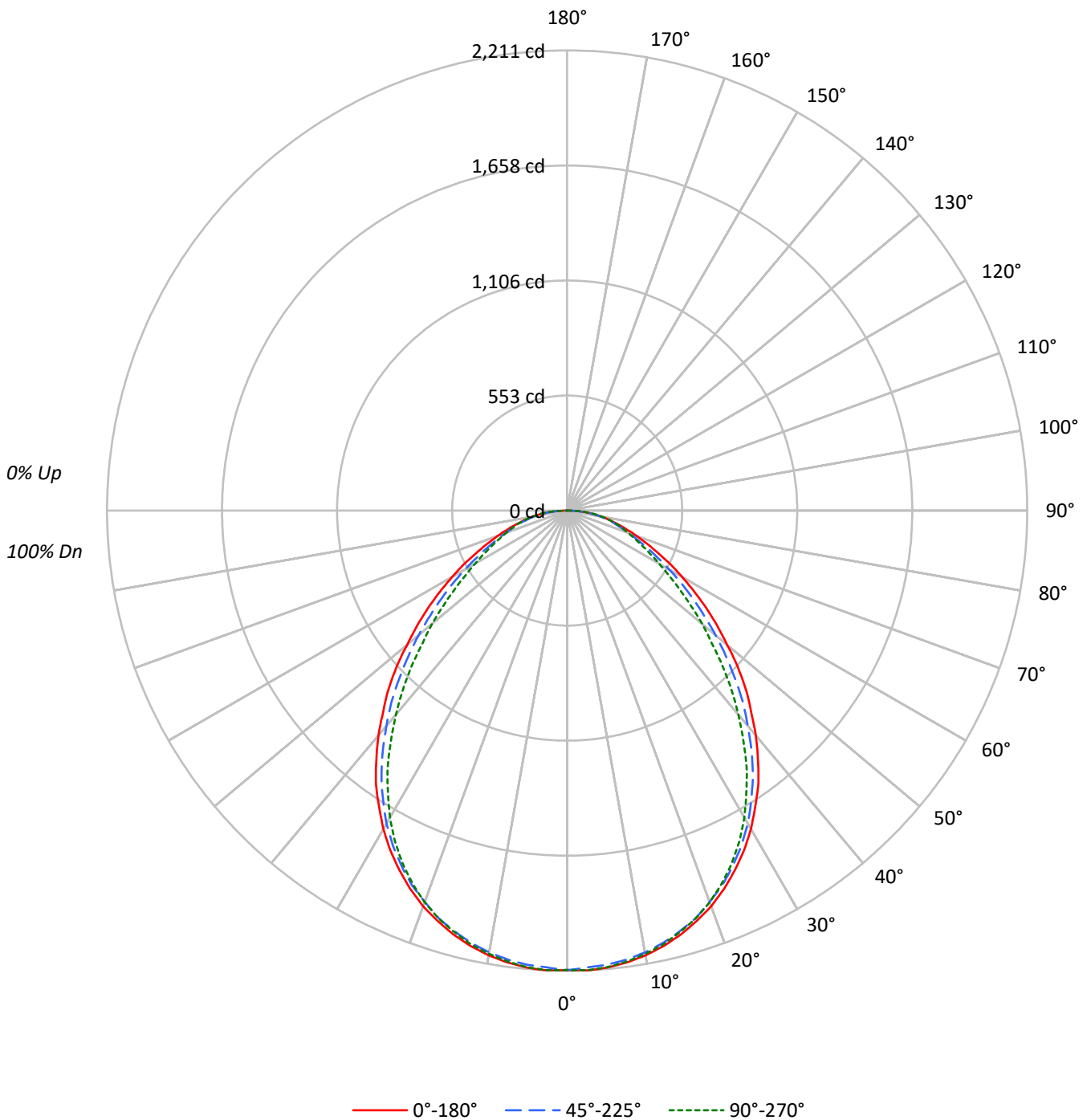
Input Watts (W): 45.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	88	85
2	101	93	87	81	98	91	85	80	88	83	78	84	80	77	81	78	75	73
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63
4	85	74	66	59	83	73	65	59	70	64	58	68	62	58	66	61	57	55
5	79	67	58	52	77	66	58	52	64	57	51	62	55	51	60	54	50	48
6	73	60	52	46	71	60	52	46	58	51	45	56	50	45	55	49	45	43
7	68	55	47	41	66	54	47	41	53	46	41	51	45	40	50	44	40	38
8	64	51	43	37	62	50	42	37	49	42	37	47	41	36	46	41	36	34
9	60	47	39	34	58	46	39	33	45	38	33	44	38	33	43	37	33	31
10	56	43	36	31	55	43	35	31	42	35	30	41	35	30	40	34	30	28

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

	0°	45°	90°
0°	7439	7439	7439
5°	7456	7409	7448
10°	7423	7375	7399
15°	7357	7300	7312
20°	7254	7175	7178
25°	7088	7002	6954
30°	6871	6753	6626
35°	6589	6398	6187
40°	6207	5940	5629
45°	5787	5438	5033
50°	5263	4878	4445
55°	4791	4326	3875
60°	4296	3810	3442
65°	3830	3395	3163
70°	3484	3094	3060
75°	3256	3014	3166
80°	3274	3114	3295
85°	3422	3193	3642



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	208.8	4.2
10°-20°	591.8	11.9
20°-30°	867.8	17.5
30°-40°	968.5	19.5
40°-50°	876.9	17.7
50°-60°	662.1	13.4
60°-70°	432.8	8.7
70°-80°	254.2	5.1
80°-90°	93.1	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°	1668.4	33.7
0°-40°	2636.9	53.2
0°-60°	4175.9	84.3
0°-90°	4955.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4955.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2208	2208	2208	2208	2208	
5°	2204	2200	2190	2203	2202	209
15°	2109	2106	2093	2104	2096	594
25°	1906	1900	1883	1880	1870	877
35°	1602	1588	1555	1520	1504	998
45°	1214	1196	1141	1080	1056	933
55°	816	797	736	678	660	730
65°	480	465	426	401	397	482
75°	250	243	232	236	243	269
85°	88	85	83	93	94	94
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2207.8	2207.8	2207.8	2207.8	2207.8
2.5°	2211.3	2207.8	2197.4	2211.3	2210.2
5°	2204.4	2199.7	2190.4	2203.2	2202.0
7.5°	2190.4	2185.7	2176.4	2188.1	2185.7
10°	2169.4	2164.8	2155.5	2168.3	2162.4
12.5°	2142.7	2138.0	2127.6	2139.2	2134.6
15°	2108.9	2105.5	2092.7	2104.3	2096.2
17.5°	2068.2	2062.4	2053.1	2060.1	2054.3
20°	2022.9	2015.9	2000.8	2007.7	2001.9
22.5°	1968.2	1958.9	1948.4	1948.4	1940.3
25°	1906.5	1899.6	1883.3	1879.8	1870.5
27.5°	1840.3	1834.5	1813.5	1807.7	1791.4
30°	1765.9	1757.7	1735.6	1717.0	1703.0
32.5°	1683.2	1677.4	1647.2	1622.7	1603.0
35°	1601.8	1587.9	1555.3	1520.3	1504.0
37.5°	1506.4	1495.9	1455.2	1412.1	1390.1
40°	1411.0	1398.2	1350.5	1302.8	1279.6
42.5°	1307.5	1295.8	1250.5	1193.5	1169.1
45°	1214.4	1195.8	1141.1	1079.5	1056.2
47.5°	1112.0	1092.3	1034.1	969.0	942.2
50°	1003.9	991.1	930.6	867.8	848.0
52.5°	907.4	887.5	830.6	769.0	747.9
55°	815.5	796.8	736.4	678.1	659.6
57.5°	723.5	702.6	650.3	597.9	579.3
60°	637.5	616.5	565.4	522.3	510.7
62.5°	559.6	536.3	490.9	457.2	449.0
65°	480.4	465.3	425.8	401.3	396.7
67.5°	414.1	395.5	364.1	352.4	350.2
70°	353.6	340.8	314.0	310.6	310.6
72.5°	298.9	288.5	268.7	271.0	274.5
75°	250.1	243.2	231.5	236.1	243.2
77.5°	208.2	201.2	194.3	201.2	205.9
80°	168.7	161.7	160.5	166.3	169.8
82.5°	126.8	120.9	122.1	131.4	135.0
85°	88.5	84.9	82.6	93.1	94.2
87.5°	45.4	43.0	41.9	50.1	47.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)