

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: P213456

Luminaire Tested: **14GR-LD5-40-A-UNV-L950-CD1-U**

Issue Date: 3/12/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P213456  
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-LD5-40-A-UNV-L950-CD1-U  
Description: METALUX GR 1X4 LED TROFFER WITH A LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

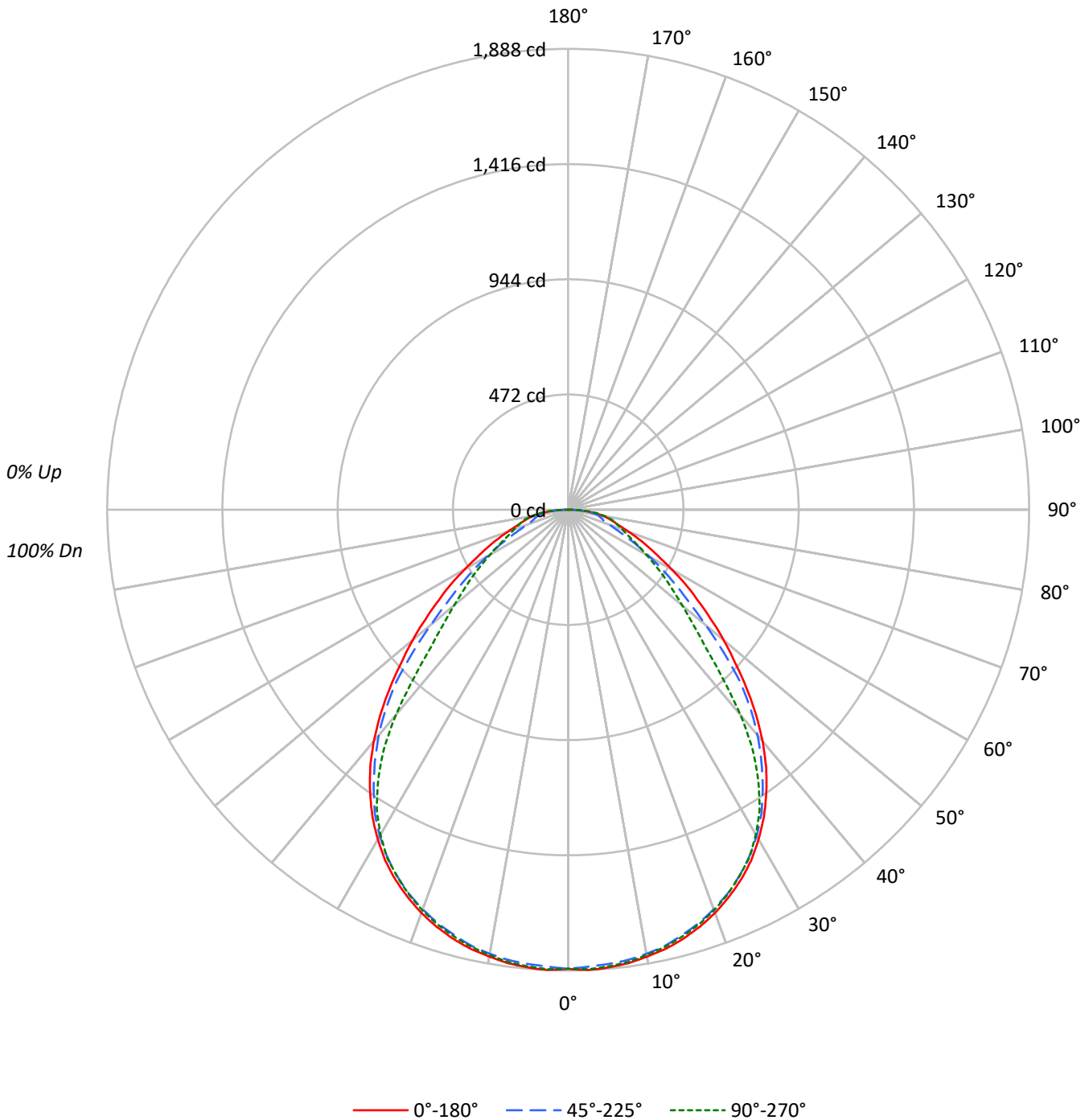
Lumens per Lamp: N/A  
Luminaire Lumens: 4105.0 lumens  
Efficiency: N/A  
Efficacy: 105.8 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.21 / 1.26  
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')  
CIE Type: Direct

Input Watts (W): 38.8  
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°	6339	6339	6339
5°	6369	6321	6353
10°	6361	6322	6338
15°	6349	6293	6313
20°	6304	6246	6263
25°	6221	6161	6164
30°	6069	6006	5980
35°	5820	5714	5584
40°	5448	5309	4831
45°	4921	4734	3776
50°	4364	3844	3194
55°	3809	3154	2817
60°	3302	2596	2487
65°	2897	2083	2295
70°	2583	1766	2310
75°	2520	1863	2582
80°	2794	2350	2959
85°	2911	2505	3464



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	178.5	4.3
10°-20°	511.3	12.5
20°-30°	764.8	18.6
30°-40°	863.4	21.0
40°-50°	732.4	17.8
50°-60°	495.6	12.1
60°-70°	295.8	7.2
70°-80°	185.3	4.5
80°-90°	77.9	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°	1454.6	35.4
0°-40°	2318.0	56.5
0°-60°	3546.0	86.4
0°-90°	4105.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4105.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1881	1881	1881	1881	1881	
5°	1883	1877	1869	1882	1878	179
15°	1820	1816	1804	1816	1810	513
25°	1673	1668	1657	1665	1658	769
35°	1415	1405	1389	1377	1358	882
45°	1033	1036	993	851	792	796
55°	648	618	537	480	480	584
65°	363	301	261	278	288	363
75°	194	172	143	189	198	208
85°	75	72	65	84	90	81
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1881.1	1881.1	1881.1	1881.1	1881.1
2.5°	1887.8	1882.1	1873.5	1884.9	1884.0
5°	1883.0	1877.2	1868.7	1882.1	1878.2
7.5°	1874.4	1869.7	1861.0	1873.5	1869.7
10°	1859.1	1855.4	1847.8	1858.2	1852.5
12.5°	1842.9	1840.1	1830.6	1840.1	1834.4
15°	1820.1	1816.3	1803.9	1816.3	1809.6
17.5°	1791.5	1786.7	1776.2	1786.7	1781.0
20°	1758.1	1752.4	1741.9	1752.4	1746.7
22.5°	1718.1	1713.3	1703.8	1713.3	1705.7
25°	1673.2	1667.6	1657.0	1664.7	1658.0
27.5°	1621.8	1614.2	1604.6	1610.3	1606.5
30°	1559.8	1550.3	1543.5	1543.5	1536.9
32.5°	1492.1	1485.4	1474.0	1467.3	1458.7
35°	1414.9	1405.3	1389.1	1376.7	1357.6
37.5°	1332.0	1320.5	1300.5	1269.0	1243.2
40°	1238.5	1224.2	1207.0	1145.1	1098.4
42.5°	1138.4	1135.5	1105.9	1000.2	935.3
45°	1032.6	1036.4	993.4	851.4	792.3
47.5°	925.7	939.1	861.0	721.7	691.2
50°	832.4	837.1	733.2	626.4	609.2
52.5°	736.0	728.5	625.4	551.1	538.7
55°	648.3	617.8	536.8	480.5	479.6
57.5°	571.1	514.9	458.6	416.7	421.4
60°	490.0	427.2	385.2	362.3	369.0
62.5°	418.5	358.4	321.3	314.6	326.1
65°	363.3	301.3	261.3	278.4	287.9
67.5°	310.9	258.3	212.6	253.6	257.4
70°	262.2	224.0	179.3	233.6	234.5
72.5°	222.1	198.3	155.4	211.7	214.5
75°	193.6	172.5	143.1	188.7	198.3
77.5°	169.7	147.8	132.5	163.1	179.3
80°	144.0	119.2	121.1	136.3	152.5
82.5°	110.6	92.5	96.3	112.5	123.9
85°	75.3	71.5	64.8	83.9	89.6
87.5°	40.0	38.1	33.4	47.7	44.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)