

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: P213373

Luminaire Tested: **14GR-LD5-43-F1-UNV-L950-CD1-U**

Issue Date: 3/12/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P213373  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35602)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/12/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14GR-LD5-43-F1-UNV-L950-CD1-U  
Description: METALUX GR 1X4 LED TROFFER WITH F1 LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4301.5 lumens  
Efficiency: N/A  
Efficacy: 102.4 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.15 / 1.23  
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')  
CIE Type: Direct

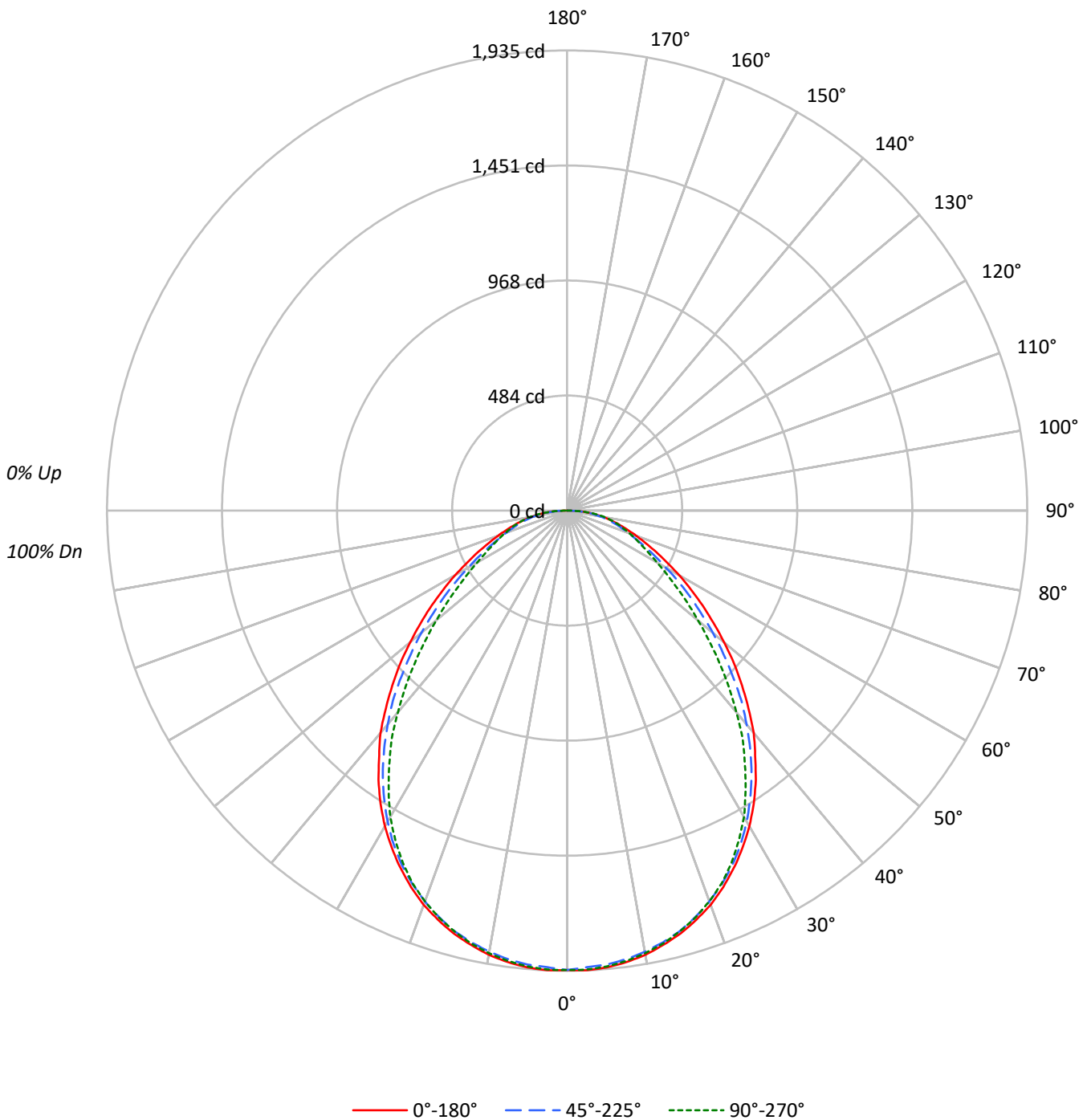
Input Watts (W): 42  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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					100			
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85					85			
2	101	93	87	81	98	91	85	80	88	83	78	84	80	77	81	78	75	73					73			
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63					63			
4	85	74	66	59	83	73	65	59	70	64	58	68	62	58	66	61	57	55					55			
5	79	67	58	52	77	66	58	52	64	57	51	62	55	51	60	54	50	48					48			
6	73	61	52	46	71	60	52	46	58	51	45	56	50	45	55	49	45	43					43			
7	68	55	47	41	66	54	47	41	53	46	41	52	45	40	50	45	40	38					38			
8	64	51	43	37	62	50	42	37	49	42	37	48	41	37	46	41	36	34					34			
9	60	47	39	34	58	46	39	34	45	38	33	44	38	33	43	37	33	31					31			
10	56	43	36	31	55	43	36	31	42	35	30	41	35	30	40	34	30	29					29			

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

	0°	45°	90°
0°	6510	6510	6510
5°	6521	6480	6507
10°	6490	6446	6466
15°	6424	6386	6389
20°	6326	6272	6269
25°	6167	6112	6078
30°	5962	5876	5786
35°	5688	5559	5362
40°	5371	5163	4868
45°	4953	4694	4316
50°	4511	4195	3769
55°	4076	3710	3286
60°	3668	3227	2937
65°	3290	2882	2754
70°	3037	2681	2731
75°	2929	2653	2876
80°	2942	2767	3118
85°	3147	2873	3263



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	182.5	4.2
10°-20°	516.9	12.0
20°-30°	756.6	17.6
30°-40°	840.9	19.5
40°-50°	756.0	17.6
50°-60°	565.3	13.1
60°-70°	372.3	8.7
70°-80°	226.3	5.3
80°-90°	84.7	2.0
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°	1456.1	33.9
0°-40°	2297.0	53.4
0°-60°	3618.3	84.1
0°-90°	4301.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4301.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1932	1932	1932	1932	1932	
5°	1928	1924	1916	1926	1924	183
15°	1842	1838	1831	1837	1832	519
25°	1659	1656	1644	1641	1635	763
35°	1383	1376	1352	1322	1303	863
45°	1039	1028	985	932	906	802
55°	694	679	632	579	559	623
65°	413	398	362	346	345	413
75°	225	215	204	214	221	239
85°	81	75	74	86	84	86
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1931.9	1931.9	1931.9	1931.9	1931.9
2.5°	1935.0	1930.9	1921.9	1932.9	1931.9
5°	1927.9	1923.9	1915.9	1925.9	1923.9
7.5°	1914.9	1909.9	1902.8	1912.9	1909.9
10°	1896.8	1891.8	1883.8	1894.8	1889.8
12.5°	1870.7	1867.7	1859.7	1867.7	1864.7
15°	1841.6	1837.6	1830.6	1836.6	1831.6
17.5°	1804.4	1800.4	1792.4	1800.4	1794.4
20°	1764.3	1759.2	1749.2	1755.2	1748.2
22.5°	1714.1	1709.1	1700.0	1703.1	1697.0
25°	1658.8	1655.8	1643.8	1640.7	1634.7
27.5°	1597.6	1592.6	1581.5	1575.5	1563.5
30°	1532.3	1527.3	1510.2	1500.2	1487.1
32.5°	1461.0	1453.0	1432.9	1415.9	1396.8
35°	1382.7	1375.6	1351.5	1322.4	1303.4
37.5°	1298.4	1294.3	1264.2	1228.0	1213.0
40°	1221.0	1205.9	1173.8	1129.7	1106.6
42.5°	1128.7	1118.6	1084.4	1035.3	1006.2
45°	1039.3	1028.2	985.1	931.8	905.7
47.5°	952.0	939.8	890.7	838.5	808.4
50°	860.6	850.5	800.3	742.1	719.0
52.5°	775.2	762.1	709.9	657.7	637.6
55°	693.9	678.8	631.6	579.4	559.3
57.5°	616.5	598.5	553.3	508.1	495.0
60°	544.3	524.2	478.9	445.8	435.8
62.5°	473.9	458.9	418.7	393.7	387.6
65°	412.7	397.7	361.5	346.4	345.4
67.5°	356.4	341.4	313.3	309.3	311.3
70°	308.3	295.2	272.1	274.1	277.2
72.5°	263.1	251.1	237.0	242.0	248.1
75°	225.0	214.9	203.8	213.8	220.9
77.5°	188.7	178.7	172.7	182.7	190.8
80°	151.6	144.6	142.6	153.6	160.7
82.5°	117.5	111.5	108.5	122.5	125.5
85°	81.4	75.3	74.3	86.4	84.4
87.5°	43.1	38.1	38.1	45.2	40.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)