

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: P234123

Luminaire Tested: **22GR-LD5-50-A125-UNV-L940-CD1-U**

Issue Date: 3/12/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P234123  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33297)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/12/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22GR-LD5-50-A125-UNV-L940-CD1-U  
Description: METALUX 2X2 GRLED TROFFER  
WITH A125 LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4218.3 lumens  
Efficiency: N/A  
Efficacy: 104.4 lumens/watt  
Spacing Criteria (0/90/45): 1.15 / 1.22 / 1.24  
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')  
CIE Type: Direct

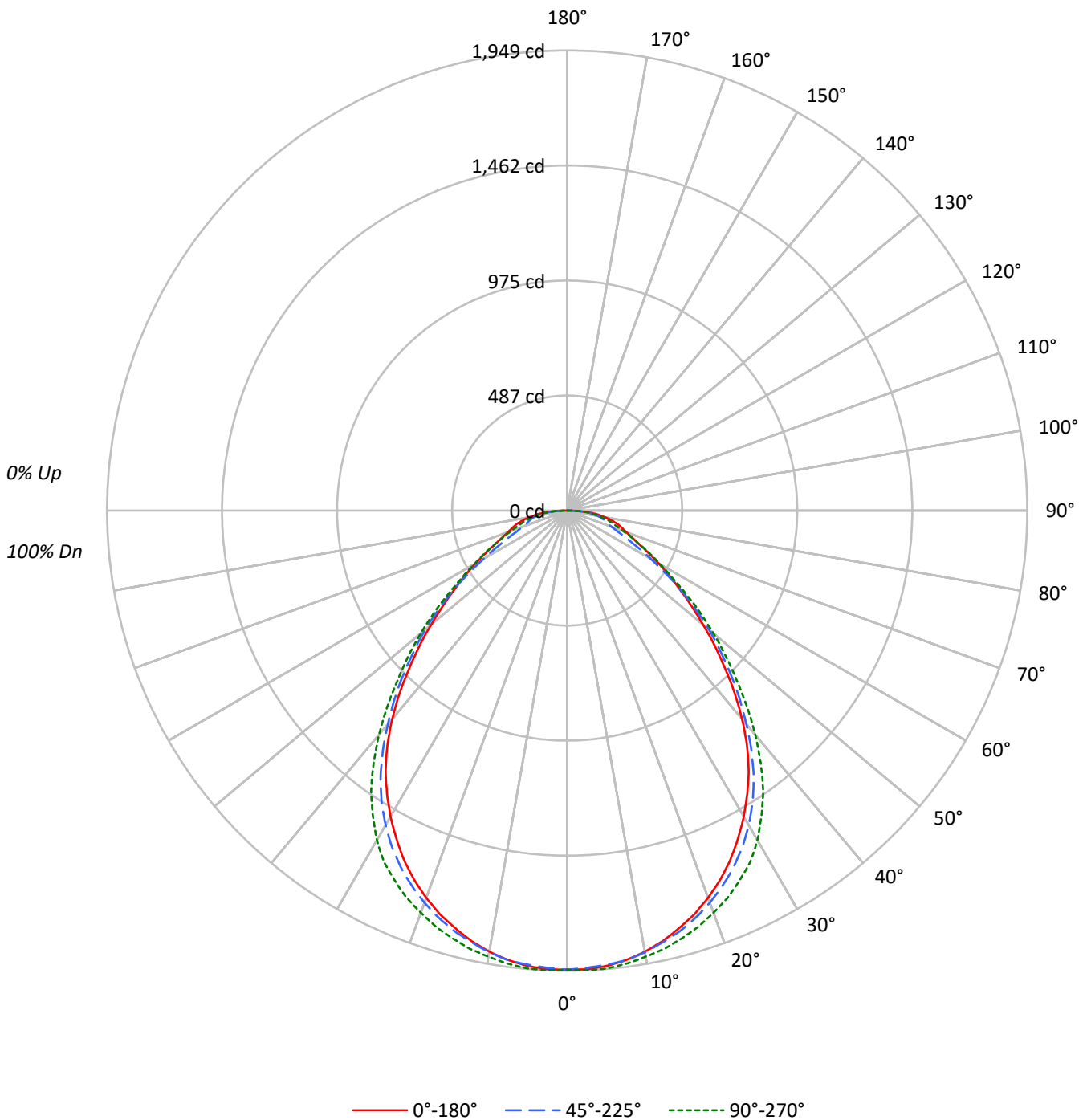
Input Watts (W): 40.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	86					86			
2	101	94	87	82	98	92	86	81	88	83	79	85	81	78	82	79	76	74					74			
3	93	83	76	70	91	82	75	69	79	73	68	76	71	67	74	70	66	64					64			
4	86	75	67	61	84	74	66	60	71	65	59	69	63	59	67	62	58	56					56			
5	80	68	59	53	78	67	59	53	65	58	52	63	57	52	61	56	51	49					49			
6	74	61	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44					44			
7	69	56	48	42	67	55	48	42	54	47	42	52	46	41	51	46	41	39					39			
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37	36					36			
9	60	48	40	35	59	47	40	34	46	39	34	45	39	34	44	38	34	32					32			
10	57	44	37	32	55	44	36	32	43	36	31	42	36	31	41	35	31	29					29			

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

	0°	45°	90°
0°	6227	6227	6227
5°	6222	6207	6257
10°	6169	6176	6240
15°	6072	6114	6218
20°	5946	6023	6177
25°	5773	5891	6106
30°	5532	5688	5961
35°	5241	5387	5660
40°	4819	4938	5185
45°	4280	4437	4597
50°	3739	3910	4028
55°	3251	3295	3415
60°	2860	2621	2917
65°	2542	2094	2557
70°	2495	1861	2358
75°	2726	2044	2409
80°	2993	2431	2576
85°	3579	2818	2892



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	183.8	4.4
10°-20°	521.1	12.4
20°-30°	769.3	18.2
30°-40°	860.9	20.4
40°-50°	756.0	17.9
50°-60°	534.9	12.7
60°-70°	311.4	7.4
70°-80°	194.0	4.6
80°-90°	86.8	2.1
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°	1474.3	34.9
0°-40°	2335.1	55.4
0°-60°	3626.1	86.0
0°-90°	4218.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4218.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1944	1944	1944	1944	1944	
5°	1936	1931	1931	1940	1946	184
15°	1831	1835	1844	1864	1876	516
25°	1634	1640	1667	1706	1728	750
35°	1341	1346	1378	1419	1448	834
45°	945	956	980	1003	1015	731
55°	582	594	590	601	612	526
65°	335	309	276	301	337	340
75°	220	190	165	169	195	230
85°	97	101	77	75	79	99
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1944.5	1944.5	1944.5	1944.5	1944.5
2.5°	1944.5	1940.5	1938.5	1945.4	1949.4
5°	1935.6	1930.7	1930.7	1940.5	1946.4
7.5°	1919.9	1915.0	1920.8	1929.7	1935.6
10°	1897.2	1895.3	1899.2	1911.0	1918.8
12.5°	1867.7	1868.7	1872.6	1891.3	1901.1
15°	1831.3	1835.2	1844.1	1863.8	1875.6
17.5°	1792.0	1794.9	1808.7	1831.3	1848.1
20°	1744.8	1750.7	1767.4	1795.9	1812.6
22.5°	1692.7	1699.5	1720.2	1754.6	1775.3
25°	1633.7	1640.5	1667.1	1706.4	1728.1
27.5°	1566.7	1577.6	1607.1	1650.3	1679.8
30°	1496.0	1504.8	1538.2	1587.4	1612.0
32.5°	1420.2	1431.0	1462.5	1509.7	1531.3
35°	1340.6	1346.4	1377.9	1419.3	1447.7
37.5°	1250.1	1253.0	1282.5	1320.9	1346.4
40°	1152.7	1154.6	1181.2	1217.6	1240.2
42.5°	1051.4	1052.4	1080.9	1108.5	1128.1
45°	945.1	956.0	979.6	1003.2	1015.0
47.5°	849.8	857.6	879.3	899.9	910.7
50°	750.4	770.1	784.8	795.7	808.5
52.5°	664.9	681.6	685.5	698.3	709.2
55°	582.2	594.1	590.1	601.0	611.7
57.5°	512.4	506.5	493.7	512.4	526.1
60°	446.5	430.8	409.2	434.7	455.4
62.5°	387.5	362.0	335.4	360.9	395.3
65°	335.4	308.8	276.4	301.0	337.4
67.5°	296.0	268.5	230.1	254.7	291.1
70°	266.5	238.0	198.7	219.3	251.8
72.5°	243.0	212.4	178.0	191.8	219.3
75°	220.3	189.8	165.2	169.2	194.7
77.5°	193.8	171.1	151.4	149.5	169.2
80°	162.3	155.4	131.8	128.8	139.7
82.5°	133.7	130.8	108.2	105.3	109.1
85°	97.4	101.3	76.7	74.7	78.7
87.5°	51.2	56.1	40.3	42.3	43.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)