

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: P476054

Luminaire Tested: **22GR-LD5-40-A-UNV-L840-CD1-U**

Issue Date: 02/10/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P476054  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 02/10/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22GR-LD5-40-A-UNV-L840-CD1-U  
Description: GR 2'X2' LED TROFFER w/ A LENS  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4064.4 lumens  
Efficiency: N/A  
Efficacy: 125.4 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.22 / 1.25  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

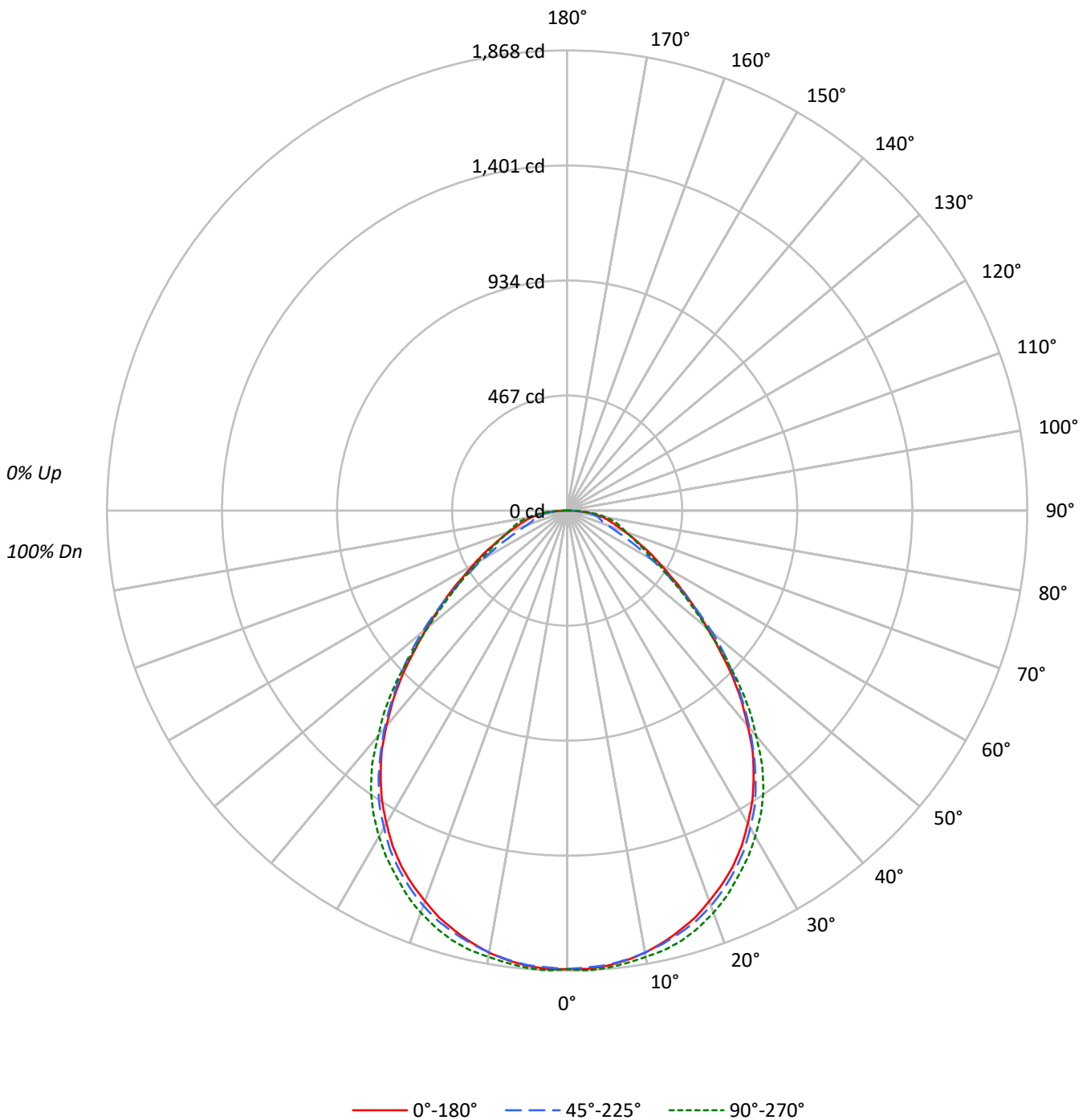
Input Watts (W): 32.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	87	82	99	92	86	81	88	84	79	85	81	78	82	79	76	74
3	93	84	76	70	91	82	75	70	79	73	68	76	71	67	74	70	66	64
4	86	75	67	61	84	74	66	60	71	65	60	69	63	59	67	62	58	56
5	80	68	59	53	78	67	59	53	65	58	53	63	57	52	61	56	51	49
6	74	62	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44
7	69	56	48	42	67	55	48	42	54	47	42	53	46	42	51	46	41	39
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37	36
9	60	48	40	35	59	47	40	35	46	39	34	45	39	34	44	38	34	32
10	57	44	37	32	55	44	36	32	43	36	31	42	36	31	41	35	31	30

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

	0°	45°	90°
0°	5009	5009	5009
5°	5010	5003	5033
10°	4980	4978	5026
15°	4917	4943	5030
20°	4832	4889	4975
25°	4729	4783	4869
30°	4558	4620	4746
35°	4334	4384	4561
40°	4007	4050	4193
45°	3599	3664	3722
50°	3112	3223	3080
55°	2716	2644	2609
60°	2352	2117	2260
65°	2102	1662	2030
70°	1950	1376	2002
75°	1946	1455	2222
80°	2157	1830	2506
85°	2248	1985	2834



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	176.1	4.3
10°-20°	501.7	12.3
20°-30°	742.0	18.3
30°-40°	837.3	20.6
40°-50°	738.1	18.2
50°-60°	506.3	12.5
60°-70°	298.8	7.4
70°-80°	186.4	4.6
80°-90°	77.7	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°	1419.8	34.9
0°-40°	2257.1	55.5
0°-60°	3501.4	86.1
0°-90°	4064.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4064.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1861	1861	1861	1861	1861	
5°	1855	1851	1852	1858	1863	176
15°	1765	1767	1774	1796	1806	497
25°	1593	1598	1611	1632	1640	731
35°	1319	1331	1334	1367	1388	822
45°	946	950	963	969	978	727
55°	579	565	564	545	556	519
65°	330	290	261	302	319	333
75°	187	168	140	196	214	201
85°	73	68	64	84	92	79
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1861.3	1861.3	1861.3	1861.3	1861.3
2.5°	1862.3	1857.5	1855.8	1863.3	1868.0
5°	1854.8	1851.0	1852.0	1858.5	1863.3
7.5°	1841.5	1838.8	1838.8	1848.0	1852.8
10°	1822.5	1821.7	1821.7	1833.0	1839.5
12.5°	1796.2	1797.0	1800.7	1816.0	1827.2
15°	1764.9	1766.7	1774.4	1796.2	1805.5
17.5°	1730.9	1730.9	1745.9	1762.9	1774.4
20°	1687.3	1690.1	1707.1	1726.1	1737.4
22.5°	1642.8	1647.5	1661.8	1683.6	1693.8
25°	1592.7	1598.5	1610.8	1631.5	1640.0
27.5°	1534.2	1541.7	1554.9	1570.0	1588.0
30°	1466.8	1478.4	1486.9	1507.6	1527.4
32.5°	1398.8	1409.3	1418.8	1440.6	1463.1
35°	1319.4	1330.7	1334.5	1366.7	1388.5
37.5°	1238.1	1242.9	1244.6	1276.9	1300.4
40°	1140.7	1150.0	1153.0	1178.5	1193.5
42.5°	1046.9	1050.9	1056.4	1075.4	1093.4
45°	945.8	950.5	962.8	968.6	978.1
47.5°	839.9	854.2	868.2	850.2	851.2
50°	743.3	754.8	769.8	735.8	735.8
52.5°	657.2	663.0	664.0	635.7	641.2
55°	578.9	564.6	563.6	544.8	556.1
57.5°	500.3	481.5	474.8	469.0	482.3
60°	437.0	402.9	393.4	401.9	420.0
62.5°	384.9	341.4	323.4	345.1	361.4
65°	330.1	290.3	261.0	301.8	318.8
67.5°	287.6	249.8	212.0	269.5	281.8
70°	247.8	218.5	174.9	245.0	254.5
72.5°	215.7	193.0	151.4	221.2	232.8
75°	187.2	168.4	139.9	195.7	213.7
77.5°	164.7	143.7	130.6	169.2	191.0
80°	139.2	118.1	118.1	141.9	161.7
82.5°	109.6	92.6	95.6	115.4	129.6
85°	72.8	68.1	64.3	84.1	91.8
87.5°	36.8	37.8	34.0	43.5	44.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)