

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: P476062

Luminaire Tested: **22GR-LD5-24-A-UNV-L850-CD1-U**

Issue Date: 02/10/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P476062  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 02/10/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22GR-LD5-24-A-UNV-L850-CD1-U  
Description: GR 2'X2' LED TROFFER w/ A LENS  
Light Source: 5000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2407.2 lumens  
Efficiency: N/A  
Efficacy: 134.5 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

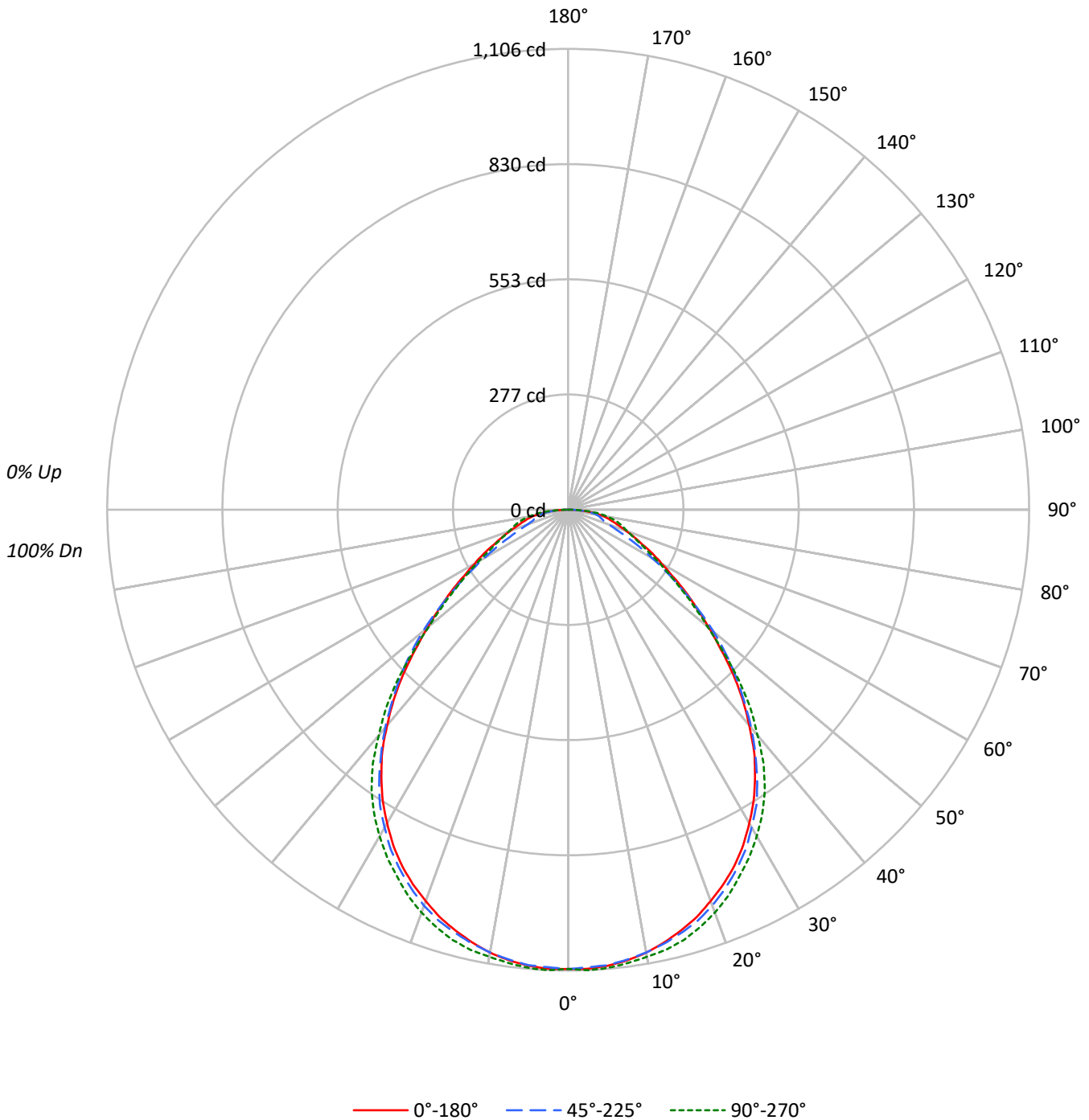
Input Watts (W): 17.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2967	2967	2967
5°	2967	2963	2981
10°	2949	2948	2977
15°	2912	2928	2979
20°	2862	2895	2947
25°	2801	2833	2884
30°	2700	2736	2811
35°	2567	2596	2702
40°	2373	2399	2483
45°	2132	2170	2205
50°	1843	1909	1824
55°	1608	1566	1545
60°	1393	1254	1338
65°	1245	984	1202
70°	1154	815	1186
75°	1153	862	1316
80°	1277	1085	1485
85°	1331	1176	1680



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	104.3	4.3
10°-20°	297.1	12.3
20°-30°	439.4	18.3
30°-40°	495.9	20.6
40°-50°	437.1	18.2
50°-60°	299.9	12.5
60°-70°	176.9	7.4
70°-80°	110.4	4.6
80°-90°	46.0	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°	840.9	34.9
0°-40°	1336.8	55.5
0°-60°	2073.8	86.1
0°-90°	2407.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2407.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1102	1102	1102	1102	1102	
5°	1098	1096	1097	1101	1104	104
15°	1045	1046	1051	1064	1069	295
25°	943	947	954	966	971	433
35°	782	788	790	810	822	487
45°	560	563	570	574	579	430
55°	343	334	334	323	329	307
65°	196	172	155	179	189	197
75°	111	100	83	116	127	119
85°	43	40	38	50	54	47
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1102.4	1102.4	1102.4	1102.4	1102.4
2.5°	1103.0	1100.1	1099.1	1103.6	1106.4
5°	1098.5	1096.3	1096.9	1100.7	1103.6
7.5°	1090.7	1089.0	1089.0	1094.5	1097.3
10°	1079.4	1078.9	1078.9	1085.6	1089.5
12.5°	1063.8	1064.3	1066.5	1075.5	1082.2
15°	1045.3	1046.3	1050.9	1063.8	1069.3
17.5°	1025.1	1025.1	1034.0	1044.1	1050.9
20°	999.3	1001.0	1011.1	1022.3	1029.0
22.5°	973.0	975.8	984.2	997.1	1003.2
25°	943.3	946.7	954.0	966.3	971.3
27.5°	908.6	913.1	920.9	929.8	940.5
30°	868.8	875.6	880.6	892.9	904.6
32.5°	828.4	834.7	840.3	853.2	866.5
35°	781.5	788.1	790.3	809.5	822.4
37.5°	733.3	736.1	737.1	756.3	770.2
40°	675.6	681.1	682.9	698.0	706.9
42.5°	620.0	622.4	625.7	636.9	647.6
45°	560.2	563.0	570.2	573.6	579.3
47.5°	497.5	505.9	514.2	503.5	504.1
50°	440.2	447.1	455.9	435.8	435.8
52.5°	389.2	392.7	393.2	376.5	379.8
55°	342.8	334.4	333.8	322.7	329.4
57.5°	296.3	285.2	281.2	277.8	285.6
60°	258.8	238.6	233.0	238.1	248.7
62.5°	228.0	202.2	191.5	204.4	214.0
65°	195.5	171.9	154.6	178.8	188.8
67.5°	170.3	147.9	125.5	159.6	166.9
70°	146.7	129.4	103.6	145.1	150.7
72.5°	127.8	114.3	89.7	131.0	137.9
75°	110.9	99.8	82.9	115.9	126.6
77.5°	97.5	85.1	77.4	100.2	113.1
80°	82.4	70.0	70.0	84.0	95.8
82.5°	64.9	54.8	56.6	68.3	76.8
85°	43.1	40.3	38.1	49.8	54.4
87.5°	21.8	22.4	20.2	25.8	26.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)