

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: P475954

Luminaire Tested: **22GR-LD5-24-F125-UNV-L840-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475954
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-24-F125-UNV-L840-CD1-U
Description: GR 2'X2' LED TROFFER w/ F125 LENS
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2479.2 lumens
Efficiency: N/A
Efficacy: 138.5 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.19 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

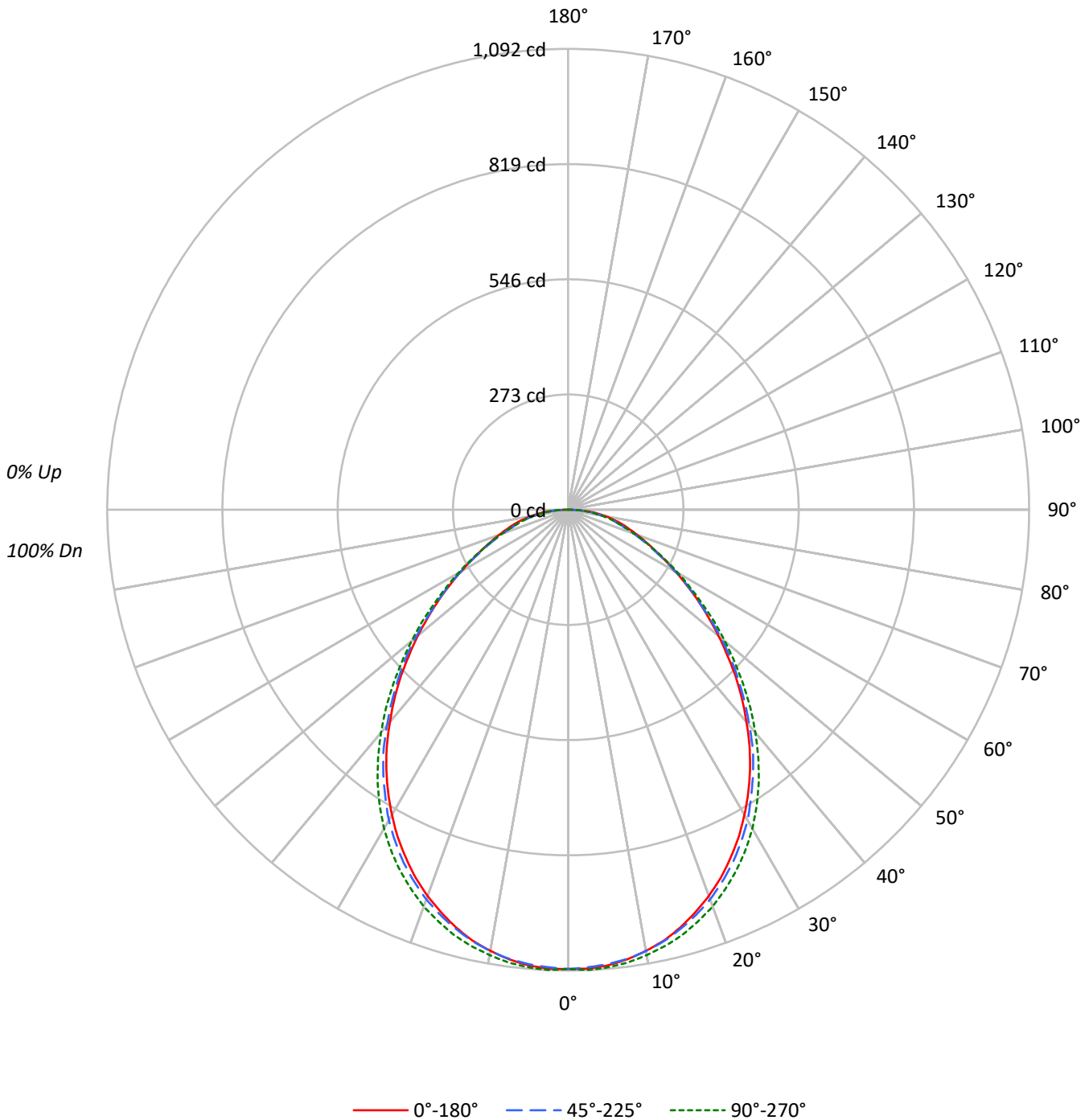
Input Watts (W): 17.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	62
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	60	56	54
5	78	66	58	52	76	65	57	51	63	56	51	61	55	50	59	54	50	48
6	73	60	52	45	71	59	51	45	57	50	45	56	49	45	54	49	44	42
7	68	55	46	41	66	54	46	40	53	45	40	51	45	40	50	44	40	38
8	63	50	42	36	62	50	42	36	48	41	36	47	41	36	46	40	36	34
9	59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	33	31
10	56	43	35	30	54	42	35	30	41	35	30	40	34	30	40	34	30	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2929	2929	2929
5°	2928	2920	2940
10°	2900	2902	2928
15°	2856	2865	2907
20°	2789	2814	2865
25°	2702	2740	2799
30°	2595	2640	2710
35°	2468	2508	2585
40°	2308	2346	2423
45°	2136	2170	2233
50°	1946	1977	2028
55°	1757	1762	1814
60°	1576	1582	1619
65°	1436	1406	1439
70°	1367	1290	1312
75°	1376	1243	1250
80°	1427	1257	1247
85°	1565	1331	1260



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.8	4.1
10°-20°	290.5	11.7
20°-30°	425.1	17.1
30°-40°	478.0	19.3
40°-50°	440.8	17.8
50°-60°	339.8	13.7
60°-70°	224.2	9.0
70°-80°	130.5	5.3
80°-90°	47.5	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°	818.4	33.0
0°-40°	1296.4	52.3
0°-60°	2077.0	83.8
0°-90°	2479.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2479.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1088	1088	1088	1088	1088	
5°	1084	1082	1081	1086	1088	103
15°	1025	1025	1028	1038	1044	289
25°	910	915	923	935	943	419
35°	751	755	763	779	787	468
45°	561	562	570	582	587	432
55°	374	374	376	382	387	336
65°	226	224	221	223	226	226
75°	132	127	120	117	120	139
85°	51	50	43	40	41	54
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1088.3	1088.3	1088.3	1088.3	1088.3
2.5°	1088.3	1086.1	1085.4	1089.6	1091.8
5°	1083.8	1081.5	1080.9	1086.1	1088.3
7.5°	1074.6	1072.8	1073.4	1079.2	1082.1
10°	1061.4	1060.8	1062.0	1068.2	1071.7
12.5°	1045.9	1045.3	1047.5	1054.4	1059.1
15°	1025.2	1025.2	1028.5	1037.8	1043.6
17.5°	1000.4	1002.0	1007.2	1016.5	1022.7
20°	973.9	975.7	982.6	992.9	1000.4
22.5°	944.5	946.9	953.8	966.4	972.8
25°	910.1	914.7	922.7	935.4	942.8
27.5°	874.3	879.5	887.0	902.7	909.5
30°	835.2	838.7	849.7	864.0	872.1
32.5°	793.8	797.3	806.5	823.8	830.7
35°	751.2	754.7	763.4	778.9	787.0
37.5°	705.3	708.2	718.5	730.5	739.2
40°	657.0	661.0	667.8	682.3	689.7
42.5°	609.8	611.5	619.0	633.4	639.1
45°	561.4	562.0	570.1	581.5	586.7
47.5°	511.4	512.6	522.3	529.2	534.4
50°	464.8	465.4	472.3	478.6	484.4
52.5°	418.2	418.2	421.7	428.6	436.0
55°	374.5	373.9	375.6	382.0	386.6
57.5°	333.2	332.5	334.8	338.8	342.3
60°	292.8	291.6	293.9	296.3	300.9
62.5°	257.2	258.3	255.4	258.9	262.4
65°	225.6	224.3	220.8	222.7	226.0
67.5°	198.5	196.8	191.0	192.1	196.2
70°	173.7	170.3	163.9	163.9	166.8
72.5°	151.3	147.8	139.7	140.3	141.5
75°	132.3	126.6	119.6	117.3	120.2
77.5°	111.6	107.0	100.6	98.9	100.1
80°	92.1	88.6	81.1	78.8	80.5
82.5°	73.1	70.2	61.5	59.8	60.4
85°	50.7	50.1	43.1	39.7	40.8
87.5°	27.1	27.5	22.4	20.1	21.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)