

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: P476038

Luminaire Tested: **22GR-LD5-24-A-UNV-L835-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P476038
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-L835-CD1-U
Description: GR 2'X2' LED TROFFER w/ A LENS
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2360.0 lumens
Efficiency: N/A
Efficacy: 131.8 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

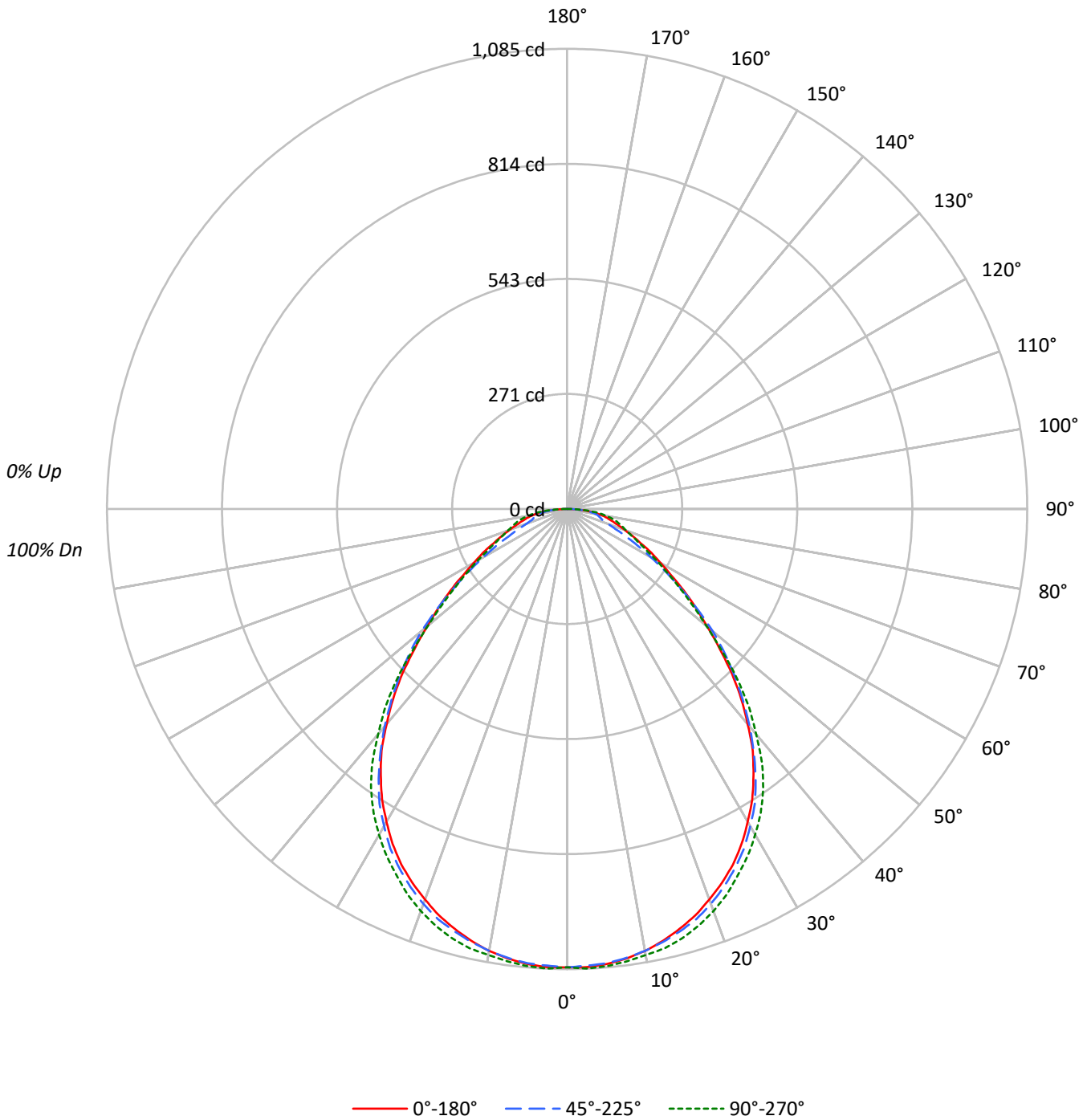
Input Watts (W): 17.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2908	2908	2908
5°	2909	2905	2922
10°	2892	2890	2919
15°	2855	2870	2920
20°	2806	2838	2889
25°	2746	2777	2828
30°	2646	2683	2756
35°	2517	2546	2648
40°	2327	2352	2434
45°	2090	2127	2161
50°	1807	1871	1788
55°	1577	1536	1515
60°	1365	1229	1312
65°	1221	965	1179
70°	1132	799	1163
75°	1130	844	1290
80°	1252	1063	1455
85°	1306	1152	1646



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.3	4.3
10°-20°	291.3	12.3
20°-30°	430.8	18.3
30°-40°	486.2	20.6
40°-50°	428.6	18.2
50°-60°	294.0	12.5
60°-70°	173.5	7.4
70°-80°	108.2	4.6
80°-90°	45.1	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°	824.4	34.9
0°-40°	1310.6	55.5
0°-60°	2033.1	86.1
0°-90°	2360.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2360.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1081	1081	1081	1081	1081	
5°	1077	1075	1075	1079	1082	102
15°	1025	1026	1030	1043	1048	289
25°	925	928	935	947	952	425
35°	766	773	775	794	806	477
45°	549	552	559	562	568	422
55°	336	328	327	316	323	301
65°	192	169	152	175	185	193
75°	109	98	81	114	124	117
85°	42	40	37	49	53	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1080.8	1080.8	1080.8	1080.8	1080.8
2.5°	1081.3	1078.6	1077.6	1081.9	1084.7
5°	1077.0	1074.8	1075.4	1079.2	1081.9
7.5°	1069.3	1067.7	1067.7	1073.0	1075.8
10°	1058.2	1057.8	1057.8	1064.3	1068.1
12.5°	1043.0	1043.4	1045.6	1054.4	1061.0
15°	1024.8	1025.8	1030.3	1043.0	1048.3
17.5°	1005.0	1005.0	1013.8	1023.6	1030.3
20°	979.8	981.4	991.2	1002.3	1008.8
22.5°	953.9	956.6	964.9	977.6	983.5
25°	924.8	928.2	935.3	947.3	952.3
27.5°	890.8	895.2	902.9	911.6	922.1
30°	851.7	858.4	863.4	875.4	886.9
32.5°	812.2	818.3	823.8	836.5	849.5
35°	766.1	772.7	774.9	793.6	806.2
37.5°	718.9	721.7	722.7	741.4	755.1
40°	662.4	667.7	669.5	684.3	693.0
42.5°	607.9	610.2	613.4	624.4	634.9
45°	549.2	551.9	559.0	562.4	567.9
47.5°	487.7	496.0	504.1	493.7	494.2
50°	431.6	438.3	447.0	427.2	427.2
52.5°	381.6	385.0	385.5	369.1	372.3
55°	336.1	327.8	327.3	316.4	322.9
57.5°	290.5	279.6	275.7	272.3	280.0
60°	253.7	234.0	228.4	233.4	243.8
62.5°	223.5	198.2	187.8	200.4	209.8
65°	191.7	168.6	151.6	175.3	185.1
67.5°	167.0	145.0	123.1	156.5	163.6
70°	143.9	126.9	101.6	142.3	147.8
72.5°	125.3	112.0	87.9	128.5	135.1
75°	108.7	97.8	81.2	113.6	124.1
77.5°	95.6	83.4	75.9	98.2	110.9
80°	80.8	68.6	68.6	82.4	93.9
82.5°	63.7	53.8	55.5	67.0	75.3
85°	42.3	39.5	37.3	48.8	53.3
87.5°	21.4	21.9	19.8	25.3	25.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)