

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: P475724

Luminaire Tested: **24GR-LD5-85-A-UNV-L835-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475724
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-85-A-UNV-L835-CD1-U
Description: GR 2'X4' LED TROFFER w/ A LENS
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8282.9 lumens
Efficiency: N/A
Efficacy: 139.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.21 / 1.28
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

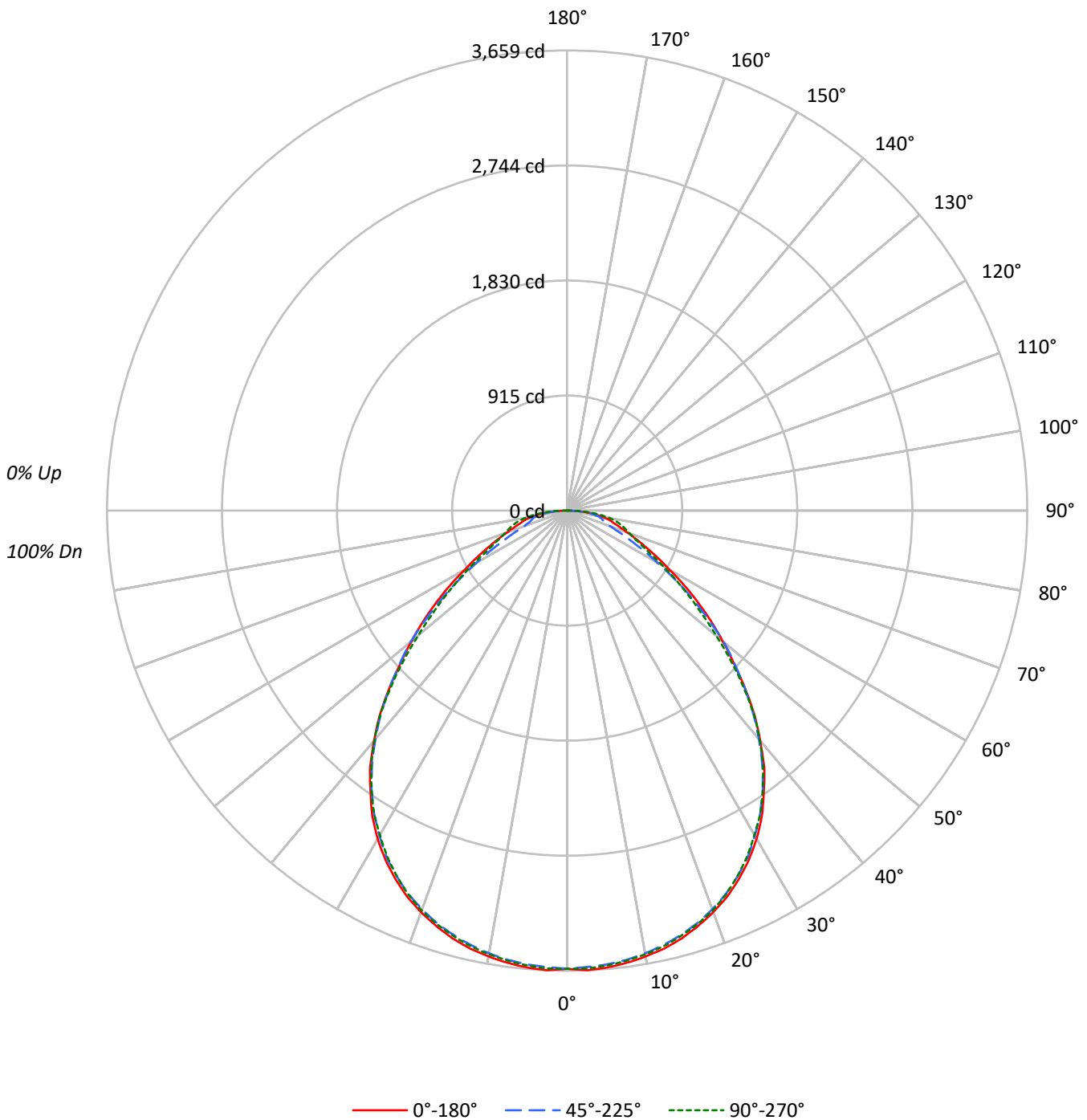
Input Watts (W): 59.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	86
2	101	93	87	82	98	92	86	81	88	83	79	85	81	77	82	79	76	74
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	74	69	66	64
4	86	75	66	60	83	73	66	60	71	64	59	69	63	58	66	62	58	56
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49
6	74	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43
7	68	56	47	42	67	55	47	42	53	46	41	52	46	41	51	45	41	39
8	64	51	43	38	62	50	43	37	49	42	37	48	42	37	47	41	37	35
9	60	47	39	34	59	47	39	34	45	39	34	44	38	34	43	38	33	32
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	31	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4902	4902	4902
5°	4926	4893	4904
10°	4918	4885	4895
15°	4904	4866	4877
20°	4866	4831	4844
25°	4798	4763	4760
30°	4682	4639	4627
35°	4481	4453	4453
40°	4193	4168	4186
45°	3807	3800	3769
50°	3377	3402	3235
55°	2967	2837	2770
60°	2526	2241	2357
65°	2207	1742	2080
70°	1996	1434	2076
75°	1997	1530	2319
80°	2199	1883	2654
85°	2266	2115	2896



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	345.0	4.2
10°-20°	987.6	11.9
20°-30°	1477.4	17.8
30°-40°	1690.6	20.4
40°-50°	1531.8	18.5
50°-60°	1084.4	13.1
60°-70°	626.5	7.6
70°-80°	379.8	4.6
80°-90°	159.8	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°	2810.0	33.9
0°-40°	4500.6	54.3
0°-60°	7116.8	85.9
0°-90°	8282.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8282.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3643	3643	3643	3643	3643	
5°	3647	3634	3623	3622	3631	347
15°	3521	3507	3493	3493	3501	993
25°	3232	3219	3208	3206	3206	1487
35°	2728	2716	2711	2707	2711	1702
45°	2001	1996	1997	1983	1981	1541
55°	1265	1222	1210	1174	1181	1134
65°	693	622	547	626	653	697
75°	384	344	294	378	446	412
85°	147	132	137	175	188	158
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3643.1	3643.1	3643.1	3643.1	3643.1
2.5°	3658.6	3644.7	3632.5	3634.1	3643.1
5°	3647.2	3634.1	3622.7	3621.9	3630.9
7.5°	3627.6	3616.2	3603.1	3603.1	3610.5
10°	3599.9	3588.5	3575.4	3574.6	3582.8
12.5°	3567.3	3552.6	3538.7	3538.7	3547.7
15°	3520.8	3506.9	3493.0	3493.0	3501.2
17.5°	3463.7	3451.5	3440.0	3440.8	3447.4
20°	3398.4	3386.2	3374.0	3375.6	3382.9
22.5°	3323.4	3308.7	3298.9	3298.1	3303.0
25°	3232.1	3219.0	3208.4	3206.0	3206.0
27.5°	3130.1	3116.3	3108.9	3097.5	3100.8
30°	3013.5	2998.8	2985.8	2979.2	2978.4
32.5°	2882.2	2867.5	2856.1	2855.3	2858.5
35°	2728.0	2715.8	2710.9	2706.8	2710.9
37.5°	2575.5	2552.7	2548.6	2547.8	2558.4
40°	2387.1	2379.0	2373.3	2369.2	2383.1
42.5°	2206.1	2189.8	2191.4	2175.9	2200.4
45°	2000.6	1996.5	1997.3	1982.6	1981.0
47.5°	1796.7	1795.9	1808.1	1767.3	1764.9
50°	1613.2	1605.0	1625.4	1562.6	1545.5
52.5°	1437.8	1415.0	1408.5	1351.4	1351.4
55°	1264.9	1222.5	1209.5	1173.6	1180.9
57.5°	1101.0	1040.7	1013.7	1012.9	1025.2
60°	938.7	870.2	832.7	862.0	875.9
62.5°	809.9	734.8	677.7	733.2	746.2
65°	693.2	621.5	547.2	626.4	653.3
67.5°	592.9	533.4	440.4	544.0	579.9
70°	507.3	454.3	364.6	479.5	527.7
72.5°	439.6	395.5	317.3	428.2	486.1
75°	384.1	344.2	294.4	378.4	446.1
77.5°	340.1	292.8	275.7	331.1	400.4
80°	283.8	240.6	243.0	284.6	342.5
82.5°	218.6	185.9	195.7	235.7	269.1
85°	146.8	132.1	137.0	175.3	187.6
87.5°	72.6	70.1	75.0	102.8	102.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)