

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: P475662

Luminaire Tested: **24GR-LD5-64-A19/156-UNV-L835-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475662
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-64-A19/156-UNV-L835-CD1-U
Description: GR 2'X4' LED TROFFER w/ A19/156 LENS
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6020.9 lumens
Efficiency: N/A
Efficacy: 138.7 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.25 / 1.28
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

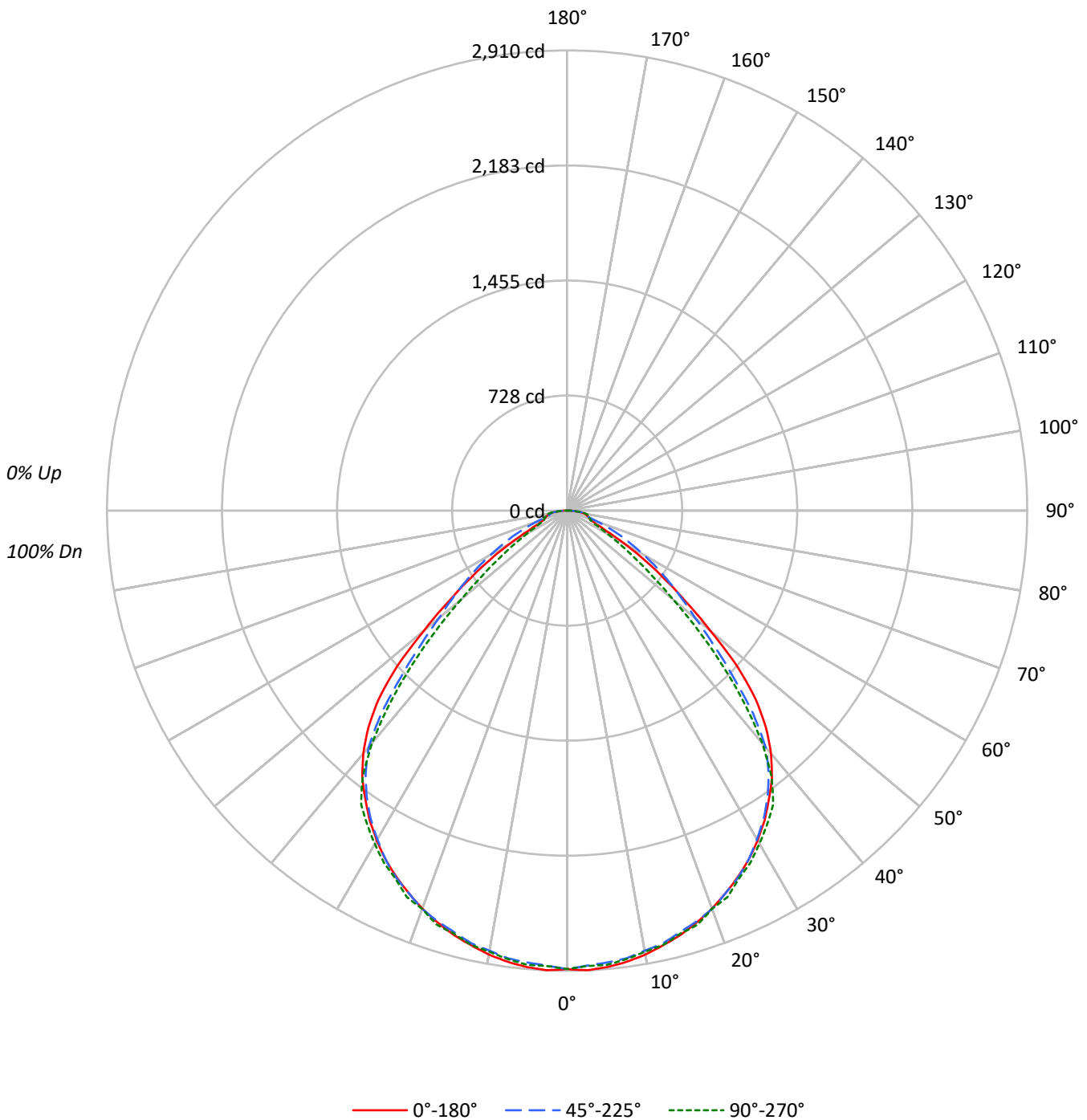
Input Watts (W): 43.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	111	107	103	100	108	104	101	98	100	98	95	96	94	92	93	91	90					88				
2	102	95	90	85	100	94	88	84	90	86	82	87	83	80	84	81	78					76				
3	95	86	79	73	92	84	78	73	81	76	71	79	74	70	76	72	69					67				
4	88	77	70	64	86	76	69	63	74	67	63	71	66	62	69	65	61					59				
5	81	70	62	56	79	69	62	56	67	60	55	65	59	55	63	58	54					52				
6	76	64	56	50	74	63	55	50	61	54	49	60	54	49	58	53	49					47				
7	71	58	50	45	69	58	50	45	56	49	44	55	49	44	53	48	44					42				
8	66	54	46	40	65	53	46	40	52	45	40	50	44	40	49	44	40					38				
9	62	49	42	37	61	49	42	37	48	41	37	47	41	36	46	40	36					34				
10	58	46	38	34	57	45	38	34	44	38	33	43	37	33	43	37	33					31				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3901	3901	3901
5°	3913	3875	3895
10°	3894	3861	3870
15°	3869	3844	3857
20°	3835	3838	3836
25°	3795	3801	3814
30°	3742	3730	3780
35°	3657	3630	3730
40°	3524	3431	3370
45°	3207	2823	2663
50°	2475	2213	1830
55°	1758	1846	1211
60°	1113	1491	790
65°	646	1173	578
70°	598	808	613
75°	688	615	730
80°	859	850	964
85°	937	994	1031



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	273.2	4.5
10°-20°	781.5	13.0
20°-30°	1179.2	19.6
30°-40°	1384.1	23.0
40°-50°	1165.2	19.4
50°-60°	661.9	11.0
60°-70°	330.4	5.5
70°-80°	173.2	2.9
80°-90°	72.2	1.2
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°	2233.9	37.1
0°-40°	3618.0	60.1
0°-60°	5445.1	90.4
0°-90°	6020.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6020.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2899	2899	2899	2899	2899	
5°	2898	2877	2869	2874	2884	275
15°	2777	2771	2760	2767	2769	783
25°	2556	2557	2560	2567	2569	1177
35°	2226	2214	2210	2247	2271	1390
45°	1686	1618	1483	1458	1399	1269
55°	750	802	787	678	516	682
65°	203	420	368	313	181	231
75°	132	204	118	178	140	140
85°	61	72	64	82	67	64
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2899.3	2899.3	2899.3	2899.3	2899.3
2.5°	2909.7	2895.6	2879.7	2875.4	2882.7
5°	2897.5	2876.6	2869.3	2874.2	2884.0
7.5°	2878.5	2857.0	2855.8	2847.2	2861.9
10°	2850.3	2836.2	2825.7	2830.6	2832.5
12.5°	2814.7	2810.4	2802.5	2795.7	2812.3
15°	2777.3	2770.6	2759.5	2766.9	2768.7
17.5°	2729.5	2725.8	2724.0	2729.5	2745.4
20°	2678.6	2678.6	2680.5	2681.7	2679.2
22.5°	2617.9	2616.1	2618.6	2623.5	2646.8
25°	2556.0	2557.3	2560.3	2567.1	2568.9
27.5°	2487.4	2488.0	2486.8	2493.5	2509.5
30°	2408.3	2405.9	2401.0	2415.7	2432.8
32.5°	2322.5	2317.6	2312.1	2334.8	2353.2
35°	2226.3	2214.0	2209.7	2247.1	2271.0
37.5°	2127.6	2102.5	2093.3	2120.8	2123.9
40°	2006.2	1968.8	1953.5	1926.5	1918.6
42.5°	1860.3	1821.7	1739.0	1697.3	1667.9
45°	1685.6	1618.2	1483.4	1457.6	1399.4
47.5°	1460.1	1388.4	1253.5	1198.3	1132.1
50°	1182.4	1140.7	1057.4	988.7	874.1
52.5°	945.2	953.8	914.5	819.5	677.3
55°	749.6	801.8	787.0	678.5	516.1
57.5°	576.8	689.0	671.2	558.4	394.1
60°	413.7	590.3	554.1	459.7	293.6
62.5°	283.8	503.9	454.2	379.4	225.0
65°	202.9	420.5	368.4	312.6	181.4
67.5°	166.7	343.9	282.6	265.4	158.1
70°	152.0	277.1	205.3	231.7	155.7
72.5°	144.7	232.3	150.8	202.9	148.3
75°	132.4	204.1	118.3	177.8	140.4
77.5°	122.6	176.5	110.3	155.7	136.7
80°	110.9	139.8	109.7	131.8	124.4
82.5°	89.5	101.8	92.6	107.9	100.5
85°	60.7	72.3	64.4	81.5	66.8
87.5°	30.0	35.6	28.8	38.6	29.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)