

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: P476072

Luminaire Tested: **22GR-LD5-90-A-UNV-L850-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P476072
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-90-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: 8961.9 lumens
Efficiency: N/A
Efficacy: 129.3 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

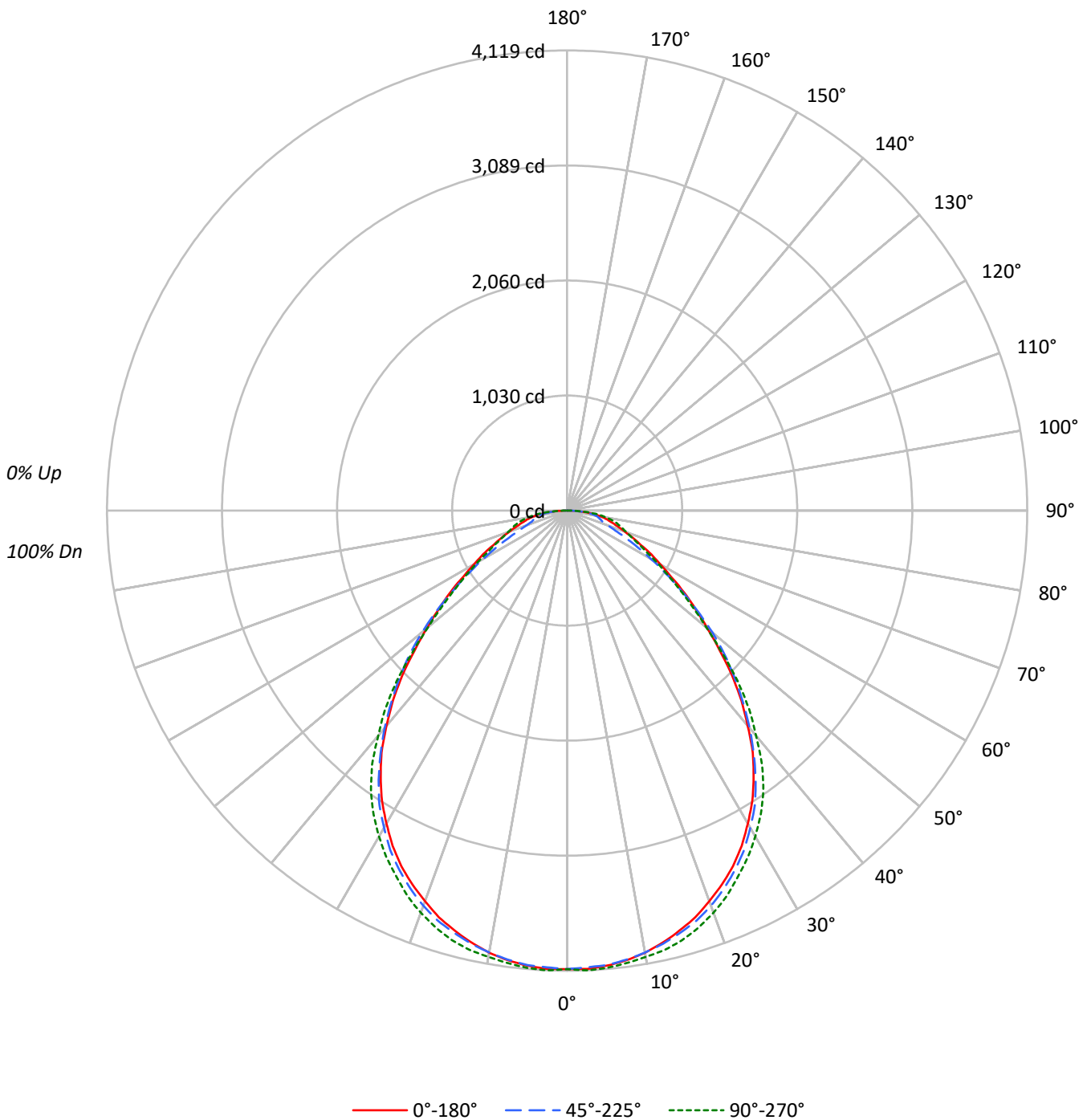
Input Watts (W): 69.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86					86			
2	101	94	87	82	99	92	86	81	88	84	79	85	81	78	82	79	76	74					74			
3	93	84	76	70	91	82	75	70	79	73	68	76	71	67	74	70	66	64					64			
4	86	75	67	61	84	74	66	60	71	65	60	69	63	59	67	62	58	56					56			
5	80	68	59	53	78	67	59	53	65	58	53	63	57	52	61	56	51	49					49			
6	74	62	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44					44			
7	69	56	48	42	67	55	48	42	54	47	42	53	46	42	51	46	41	39					39			
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37	36					36			
9	60	48	40	35	59	47	40	35	46	39	34	45	39	34	44	38	34	32					32			
10	57	44	37	32	55	44	36	32	43	36	31	42	36	31	41	35	31	30					30			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11044	11044	11044
5°	11047	11031	11098
10°	10981	10976	11083
15°	10842	10900	11091
20°	10654	10779	10970
25°	10428	10546	10737
30°	10050	10187	10465
35°	9557	9666	10058
40°	8836	8931	9245
45°	7936	8079	8207
50°	6862	7106	6792
55°	5988	5831	5753
60°	5186	4669	4984
65°	4635	3665	4477
70°	4298	3035	4415
75°	4292	3208	4900
80°	4754	4037	5525
85°	4959	4378	6252



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	388.4	4.3
10°-20°	1106.2	12.3
20°-30°	1636.0	18.3
30°-40°	1846.2	20.6
40°-50°	1627.5	18.2
50°-60°	1116.4	12.5
60°-70°	658.8	7.4
70°-80°	411.1	4.6
80°-90°	171.4	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°	3130.6	34.9
0°-40°	4976.8	55.5
0°-60°	7720.6	86.1
0°-90°	8961.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8961.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4104	4104	4104	4104	4104	
5°	4090	4082	4084	4098	4108	388
15°	3892	3896	3913	3961	3981	1097
25°	3512	3525	3552	3598	3616	1613
35°	2909	2934	2942	3014	3062	1813
45°	2085	2096	2123	2136	2157	1602
55°	1276	1245	1243	1201	1226	1145
65°	728	640	576	666	703	733
75°	413	371	308	432	471	443
85°	161	150	142	185	202	173
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4104.1	4104.1	4104.1	4104.1	4104.1
2.5°	4106.3	4095.8	4091.9	4108.5	4119.0
5°	4089.7	4081.5	4083.7	4098.0	4108.5
7.5°	4060.5	4054.4	4054.4	4074.8	4085.3
10°	4018.5	4016.9	4016.9	4041.7	4056.1
12.5°	3960.6	3962.3	3970.5	4004.2	4029.0
15°	3891.6	3895.5	3912.6	3960.6	3981.0
17.5°	3816.6	3816.6	3849.7	3887.2	3912.6
20°	3720.5	3726.6	3764.1	3806.1	3830.9
22.5°	3622.3	3632.8	3664.3	3712.3	3734.9
25°	3512.0	3524.6	3551.7	3597.5	3616.2
27.5°	3382.8	3399.4	3428.6	3461.7	3501.5
30°	3234.4	3259.8	3278.5	3324.3	3367.9
32.5°	3084.3	3107.4	3128.4	3176.4	3226.1
35°	2909.3	2934.2	2942.4	3013.6	3061.6
37.5°	2730.0	2740.5	2744.3	2815.5	2867.4
40°	2515.3	2535.7	2542.4	2598.6	2631.8
42.5°	2308.4	2317.2	2329.3	2371.3	2411.0
45°	2085.4	2095.9	2123.0	2135.6	2156.6
47.5°	1852.0	1883.5	1914.4	1874.6	1876.8
50°	1639.0	1664.4	1697.5	1622.4	1622.4
52.5°	1449.1	1461.8	1464.0	1401.7	1413.8
55°	1276.4	1245.0	1242.8	1201.4	1226.2
57.5°	1103.1	1061.8	1046.9	1034.2	1063.4
60°	963.5	888.5	867.5	886.3	926.0
62.5°	848.7	752.7	713.0	761.0	796.9
65°	727.9	640.1	575.6	665.5	703.1
67.5°	634.1	550.7	467.4	594.3	621.4
70°	546.3	481.8	385.7	540.3	561.2
72.5°	475.7	425.5	333.9	487.8	513.2
75°	412.8	371.4	308.5	431.5	471.3
77.5°	363.1	316.8	288.1	373.0	421.1
80°	306.8	260.5	260.5	312.9	356.5
82.5°	241.7	204.2	210.8	254.4	285.9
85°	160.6	150.1	141.8	185.4	202.5
87.5°	81.1	83.3	75.1	96.0	98.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)