

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: P475698

Luminaire Tested: **24GR-LD5-130-A19/156-UNV-L850-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475698
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-130-A19/156-UNV-L850-CD1-U
Description: GR 2'X4' LED TROFFER w/ A19/156 LENS
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12587.8 lumens
Efficiency: N/A
Efficacy: 141.9 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

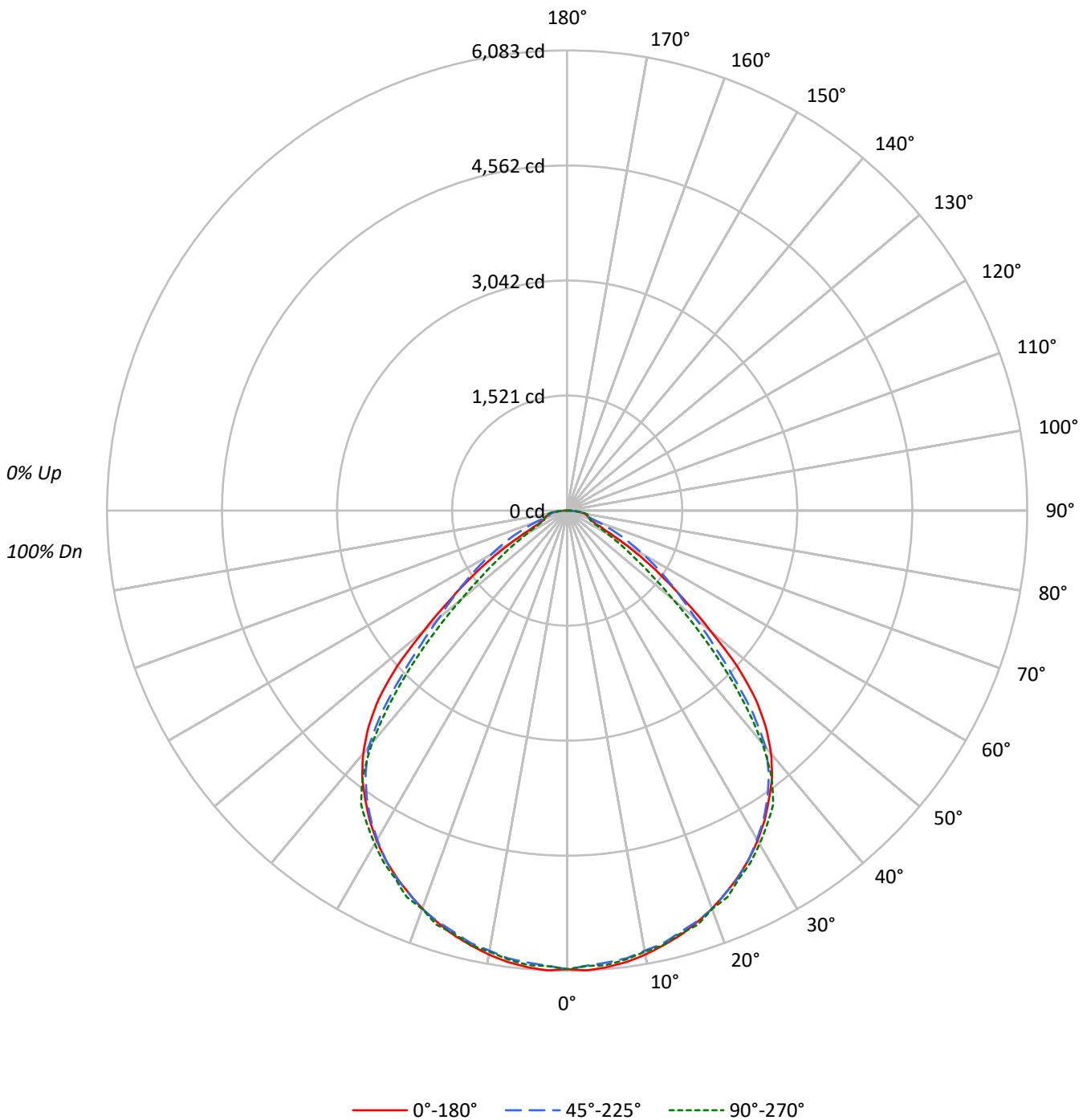
Input Watts (W): 88.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	8156	8156	8156
5°	8182	8102	8144
10°	8141	8072	8091
15°	8088	8037	8063
20°	8019	8024	8020
25°	7933	7947	7973
30°	7823	7799	7902
35°	7645	7588	7799
40°	7367	7174	7045
45°	6706	5901	5567
50°	5174	4627	3825
55°	3677	3860	2531
60°	2328	3117	1652
65°	1351	2452	1208
70°	1250	1689	1281
75°	1439	1286	1526
80°	1798	1777	2015
85°	1959	2078	2157



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	571.2	4.5
10°-20°	1633.9	13.0
20°-30°	2465.3	19.6
30°-40°	2893.7	23.0
40°-50°	2436.1	19.4
50°-60°	1383.8	11.0
60°-70°	690.7	5.5
70°-80°	362.1	2.9
80°-90°	151.0	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°	4670.4	37.1
0°-40°	7564.1	60.1
0°-60°	11384.0	90.4
0°-90°	12587.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12587.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6062	6062	6062	6062	6062	
5°	6058	6014	5999	6009	6030	575
15°	5806	5792	5769	5785	5789	1637
25°	5344	5346	5353	5367	5371	2461
35°	4654	4629	4620	4698	4748	2907
45°	3524	3383	3101	3047	2926	2654
55°	1567	1676	1646	1419	1079	1426
65°	424	879	770	654	379	482
75°	277	427	247	372	294	293
85°	127	151	135	170	140	134
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6061.5	6061.5	6061.5	6061.5	6061.5
2.5°	6083.3	6053.9	6020.5	6011.6	6026.9
5°	6057.7	6014.1	5998.8	6009.0	6029.5
7.5°	6018.0	5973.1	5970.6	5952.6	5983.4
10°	5959.0	5929.5	5907.8	5918.0	5921.9
12.5°	5884.7	5875.7	5859.1	5845.0	5879.6
15°	5806.5	5792.4	5769.4	5784.7	5788.6
17.5°	5706.6	5698.9	5695.0	5706.6	5739.9
20°	5600.2	5600.2	5604.0	5606.6	5601.5
22.5°	5473.3	5469.5	5474.6	5484.9	5533.6
25°	5343.9	5346.5	5352.9	5367.0	5370.8
27.5°	5200.4	5201.7	5199.1	5213.2	5246.5
30°	5035.1	5029.9	5019.7	5050.4	5086.3
32.5°	4855.6	4845.4	4833.9	4881.3	4919.7
35°	4654.4	4628.8	4619.8	4698.0	4748.0
37.5°	4448.1	4395.6	4376.4	4434.0	4440.4
40°	4194.4	4116.2	4084.2	4027.8	4011.1
42.5°	3889.4	3808.6	3635.6	3548.5	3487.0
45°	3524.2	3383.2	3101.3	3047.4	2925.7
47.5°	3052.6	2902.6	2620.7	2505.4	2367.0
50°	2472.0	2384.9	2210.6	2067.1	1827.4
52.5°	1976.1	1994.0	1912.0	1713.4	1416.1
55°	1567.3	1676.2	1645.5	1418.6	1079.0
57.5°	1205.9	1440.4	1403.3	1167.5	824.0
60°	865.0	1234.1	1158.5	961.1	613.8
62.5°	593.3	1053.4	949.6	793.3	470.3
65°	424.2	879.1	770.2	653.6	379.3
67.5°	348.6	718.9	590.8	554.9	330.6
70°	317.8	579.2	429.3	484.4	325.5
72.5°	302.4	485.7	315.3	424.2	310.1
75°	276.8	426.7	247.3	371.6	293.5
77.5°	256.3	369.1	230.7	325.5	285.8
80°	232.0	292.2	229.4	275.5	260.1
82.5°	187.1	212.7	193.5	225.5	210.2
85°	126.9	151.2	134.6	170.4	139.7
87.5°	62.8	74.3	60.2	80.7	61.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)