

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: P475638

Luminaire Tested: **24GR-LD5-130-F125-UNV-L850-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475638
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-130-F125-UNV-L850-CD1-U
Description: GR 2'X4' LED TROFFER w/ F125 LENS
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13250.4 lumens
Efficiency: N/A
Efficacy: 149.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.23 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

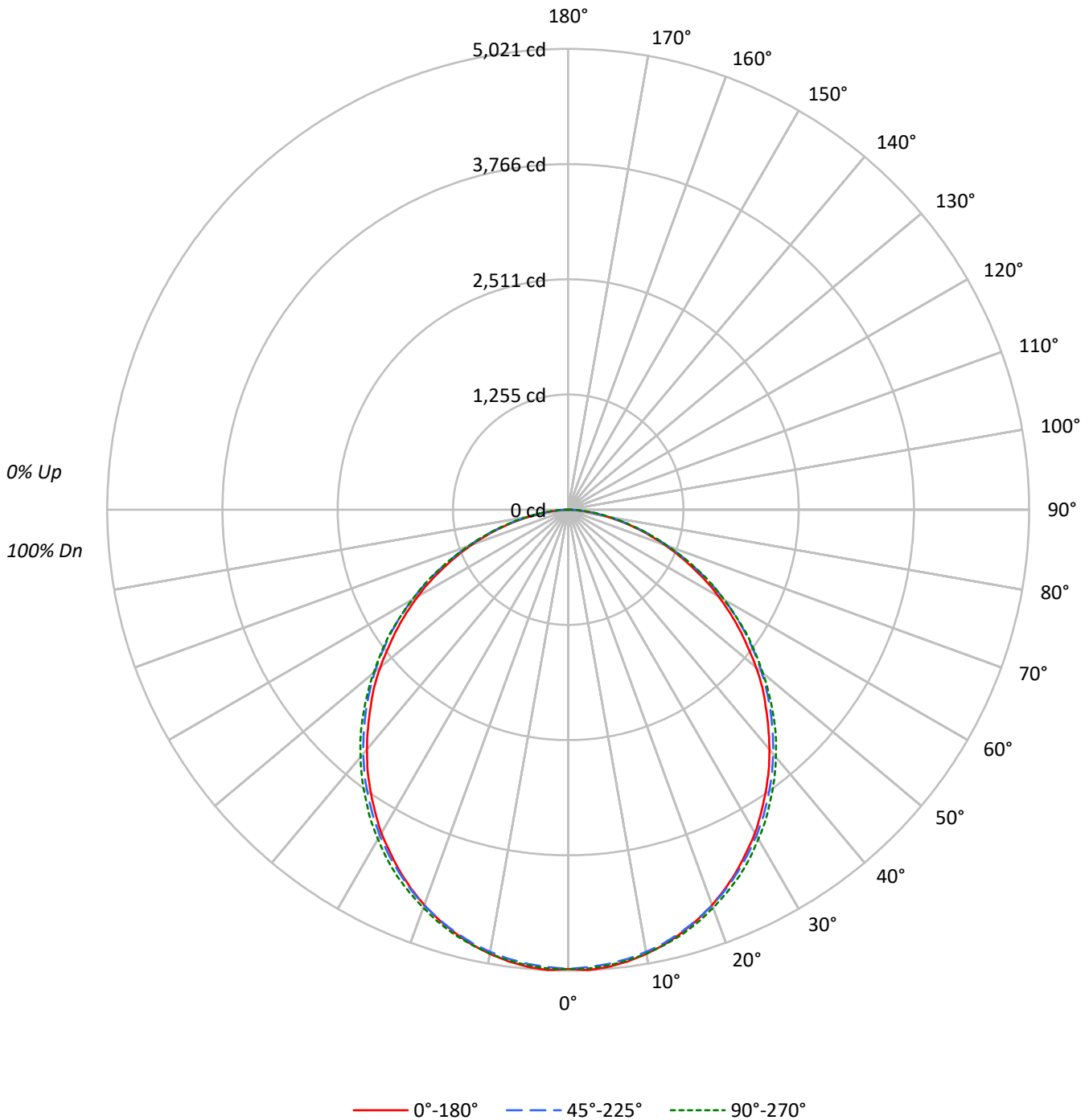
Input Watts (W): 88.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	100	97	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	85	79	97	89	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	71	66	62	60
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	53	51
5	77	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	47	45
6	71	58	49	42	69	57	48	42	55	47	42	53	47	41	52	46	41	39
7	66	52	44	38	64	51	43	37	50	43	37	48	42	37	47	41	37	35
8	61	48	39	34	60	47	39	33	46	38	33	45	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6733	6733	6733
5°	6754	6711	6730
10°	6715	6683	6711
15°	6648	6634	6674
20°	6563	6565	6609
25°	6449	6474	6542
30°	6323	6371	6437
35°	6160	6244	6317
40°	5991	6099	6180
45°	5793	5934	6010
50°	5591	5755	5794
55°	5350	5541	5582
60°	5094	5268	5274
65°	4759	4943	4969
70°	4409	4533	4518
75°	3917	4057	4069
80°	3277	3393	3521
85°	2458	2644	2737



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	472.8	3.6
10°-20°	1345.2	10.2
20°-30°	2010.8	15.2
30°-40°	2375.7	17.9
40°-50°	2398.2	18.1
50°-60°	2093.0	15.8
60°-70°	1525.8	11.5
70°-80°	822.9	6.2
80°-90°	206.0	1.6
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°	3828.8	28.9
0°-40°	6204.5	46.8
0°-60°	10695.7	80.7
0°-90°	13250.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13250.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5004	5004	5004	5004	5004	
5°	5000	4982	4969	4973	4983	474
15°	4773	4763	4762	4774	4792	1346
25°	4344	4345	4361	4389	4407	2000
35°	3750	3761	3802	3838	3846	2346
45°	3044	3066	3119	3158	3158	2350
55°	2280	2308	2362	2371	2380	2038
65°	1495	1527	1553	1556	1561	1485
75°	753	761	780	783	783	801
85°	159	163	171	180	177	194
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5004.1	5004.1	5004.1	5004.1	5004.1
2.5°	5020.6	5002.6	4988.3	4991.3	5003.3
5°	5000.3	4982.3	4968.8	4973.3	4983.0
7.5°	4964.3	4947.7	4937.2	4941.7	4954.5
10°	4914.7	4901.2	4891.4	4898.2	4911.7
12.5°	4851.6	4838.1	4834.3	4844.1	4856.1
15°	4772.7	4763.0	4762.2	4773.5	4791.5
17.5°	4684.1	4674.3	4679.6	4694.6	4710.4
20°	4583.4	4574.4	4584.9	4605.2	4615.7
22.5°	4468.5	4461.0	4479.8	4500.8	4514.3
25°	4343.8	4344.6	4361.1	4388.9	4406.9
27.5°	4205.6	4210.9	4235.7	4262.7	4280.7
30°	4069.7	4065.2	4100.5	4129.8	4143.3
32.5°	3911.9	3914.2	3955.5	3985.5	4005.8
35°	3750.4	3760.9	3801.5	3838.3	3845.8
37.5°	3587.4	3594.9	3643.8	3679.8	3689.6
40°	3410.9	3424.4	3472.5	3506.3	3518.3
42.5°	3226.9	3244.2	3296.0	3331.3	3347.1
45°	3044.4	3066.1	3118.7	3157.8	3158.5
47.5°	2867.8	2883.6	2934.7	2969.2	2965.5
50°	2671.0	2694.3	2749.2	2770.2	2767.9
52.5°	2469.7	2505.0	2555.4	2571.9	2569.6
55°	2280.5	2308.2	2362.3	2371.3	2379.6
57.5°	2084.4	2108.4	2167.0	2170.8	2169.3
60°	1892.9	1914.6	1957.5	1968.0	1959.7
62.5°	1699.8	1721.6	1759.9	1770.4	1768.9
65°	1494.8	1527.1	1552.6	1555.6	1560.9
67.5°	1304.0	1324.3	1349.0	1353.6	1349.8
70°	1120.7	1138.0	1152.2	1155.2	1148.5
72.5°	931.4	947.2	967.5	971.2	963.7
75°	753.4	760.9	780.4	783.4	782.7
77.5°	580.6	586.6	600.9	612.2	613.7
80°	422.9	425.1	437.9	446.2	454.4
82.5°	280.2	286.2	295.9	304.2	311.7
85°	159.2	163.0	171.3	179.5	177.3
87.5°	61.6	69.9	70.6	78.9	81.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)