

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: P475863

Luminaire Tested: **24GR-LD5-130-FGW080-UNV-L840-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475863
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-130-FGW080-UNV-L840-CD1-U
Description: GR 2'X4' LED TROFFER w/ FGW080 LENS
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11251.5 lumens
Efficiency: N/A
Efficacy: 126.8 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.25 / 1.36
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

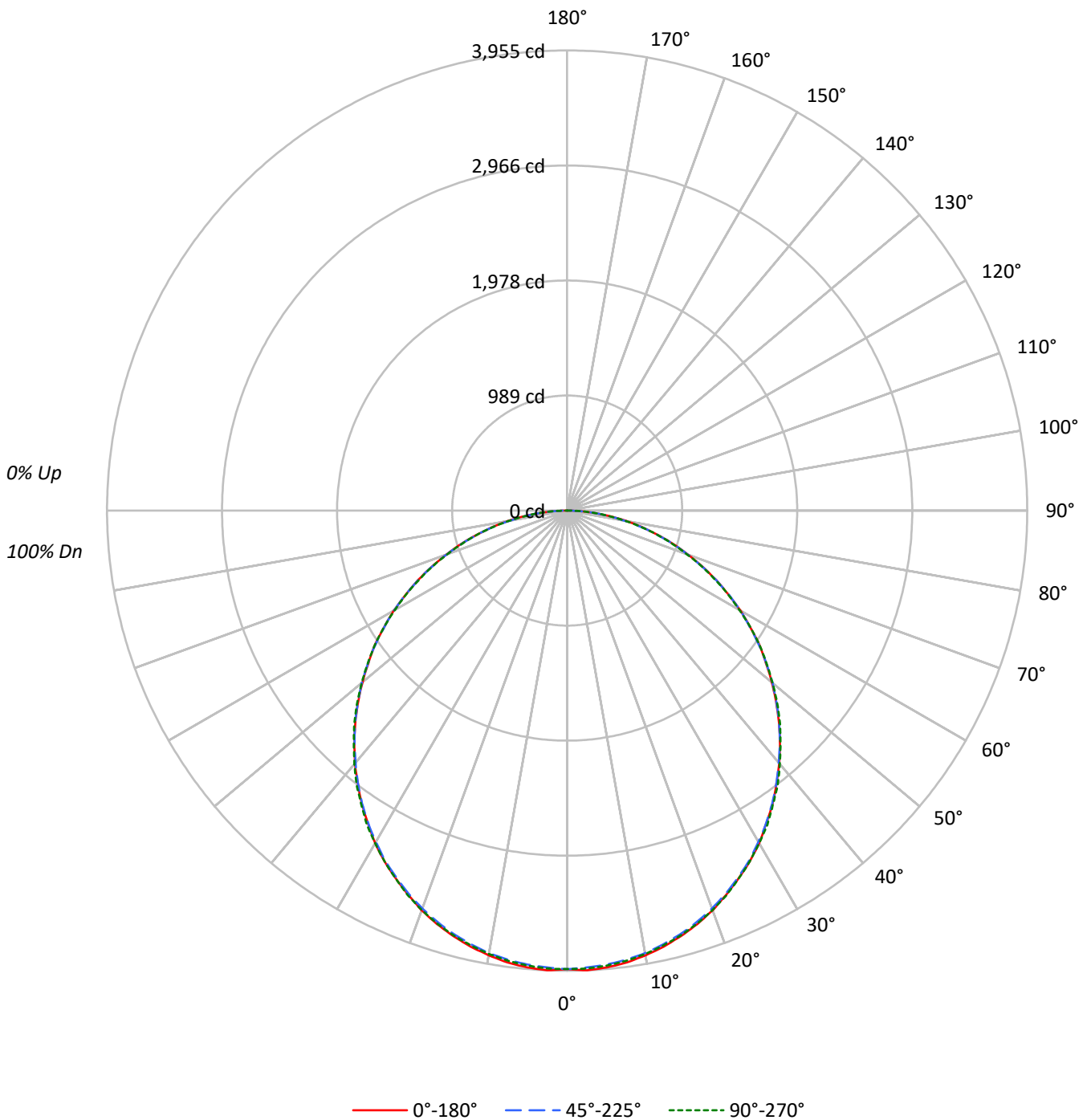
Input Watts (W): 88.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	82	76	85	79	74	81	77	73	78	74	71	69
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	52	49
5	75	62	53	47	73	61	53	46	59	52	46	57	50	45	55	49	45	43
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	49	41	35	47	40	35	46	40	35	33
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5302	5302	5302
5°	5323	5290	5302
10°	5302	5276	5287
15°	5273	5248	5262
20°	5234	5211	5231
25°	5178	5162	5181
30°	5128	5108	5128
35°	5055	5047	5065
40°	4983	4969	4996
45°	4901	4901	4923
50°	4808	4821	4821
55°	4740	4722	4737
60°	4633	4629	4598
65°	4500	4496	4467
70°	4343	4333	4308
75°	4177	4164	4170
80°	3986	3907	3927
85°	3538	3538	3577



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	372.7	3.3
10°-20°	1064.6	9.5
20°-30°	1605.0	14.3
30°-40°	1923.4	17.1
40°-50°	1987.2	17.7
50°-60°	1799.6	16.0
60°-70°	1394.0	12.4
70°-80°	845.5	7.5
80°-90°	259.6	2.3
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°	3042.2	27.0
0°-40°	4965.6	44.1
0°-60°	8752.3	77.8
0°-90°	11251.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11251.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3941	3941	3941	3941	3941	
5°	3941	3926	3917	3917	3926	374
15°	3786	3774	3768	3770	3778	1068
25°	3488	3480	3477	3485	3490	1608
35°	3078	3066	3072	3078	3084	1924
45°	2576	2571	2576	2580	2587	1986
55°	2021	2009	2013	2016	2020	1800
65°	1413	1406	1412	1408	1403	1397
75°	804	804	801	793	802	852
85°	229	233	229	225	232	263
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3940.9	3940.9	3940.9	3940.9	3940.9
2.5°	3954.9	3940.9	3930.7	3930.7	3939.6
5°	3940.9	3925.6	3916.7	3916.7	3925.6
7.5°	3917.9	3901.4	3893.8	3893.8	3901.4
10°	3881.0	3868.3	3861.9	3861.9	3869.6
12.5°	3837.7	3826.3	3818.6	3819.9	3827.5
15°	3785.5	3774.1	3767.7	3770.2	3777.9
17.5°	3724.4	3712.9	3707.9	3711.7	3720.6
20°	3655.6	3641.6	3639.1	3642.9	3653.1
22.5°	3572.9	3564.0	3562.7	3569.1	3578.0
25°	3487.6	3479.9	3477.4	3485.0	3490.1
27.5°	3399.7	3385.7	3390.8	3392.1	3399.7
30°	3300.4	3287.7	3287.7	3292.8	3300.4
32.5°	3185.8	3178.2	3184.5	3190.9	3202.4
35°	3077.6	3066.1	3072.5	3077.6	3083.9
37.5°	2955.3	2952.8	2954.1	2961.7	2971.9
40°	2836.9	2829.3	2829.3	2839.5	2844.6
42.5°	2707.0	2700.7	2705.8	2710.9	2713.4
45°	2575.9	2570.8	2575.9	2579.7	2587.3
47.5°	2435.8	2437.1	2438.4	2440.9	2448.6
50°	2297.0	2302.1	2303.4	2308.5	2303.4
52.5°	2153.2	2154.4	2159.5	2160.8	2162.1
55°	2020.7	2009.3	2013.1	2015.6	2019.5
57.5°	1865.4	1861.6	1861.6	1865.4	1867.9
60°	1721.5	1713.9	1720.2	1712.6	1708.8
62.5°	1561.1	1563.6	1566.2	1564.9	1558.5
65°	1413.4	1405.7	1412.1	1408.3	1403.2
67.5°	1258.0	1251.7	1254.2	1252.9	1251.7
70°	1104.0	1104.0	1101.4	1095.0	1095.0
72.5°	958.8	951.2	953.7	946.1	946.1
75°	803.5	803.5	800.9	793.3	802.2
77.5°	658.3	654.5	651.9	646.8	646.8
80°	514.4	505.5	504.2	504.2	506.8
82.5°	373.1	366.7	364.2	364.2	365.4
85°	229.2	233.0	229.2	225.4	231.7
87.5°	108.2	103.1	103.1	107.0	109.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)