

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: P475625

Luminaire Tested: **24GR-LD5-LD5-F125-UNV-L840-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475625
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-LD5-F125-UNV-L840-CD1-U
Description: GR 2'X4' LED TROFFER w/ F125 LENS
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18408.7 lumens
Efficiency: N/A
Efficacy: 145.8 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

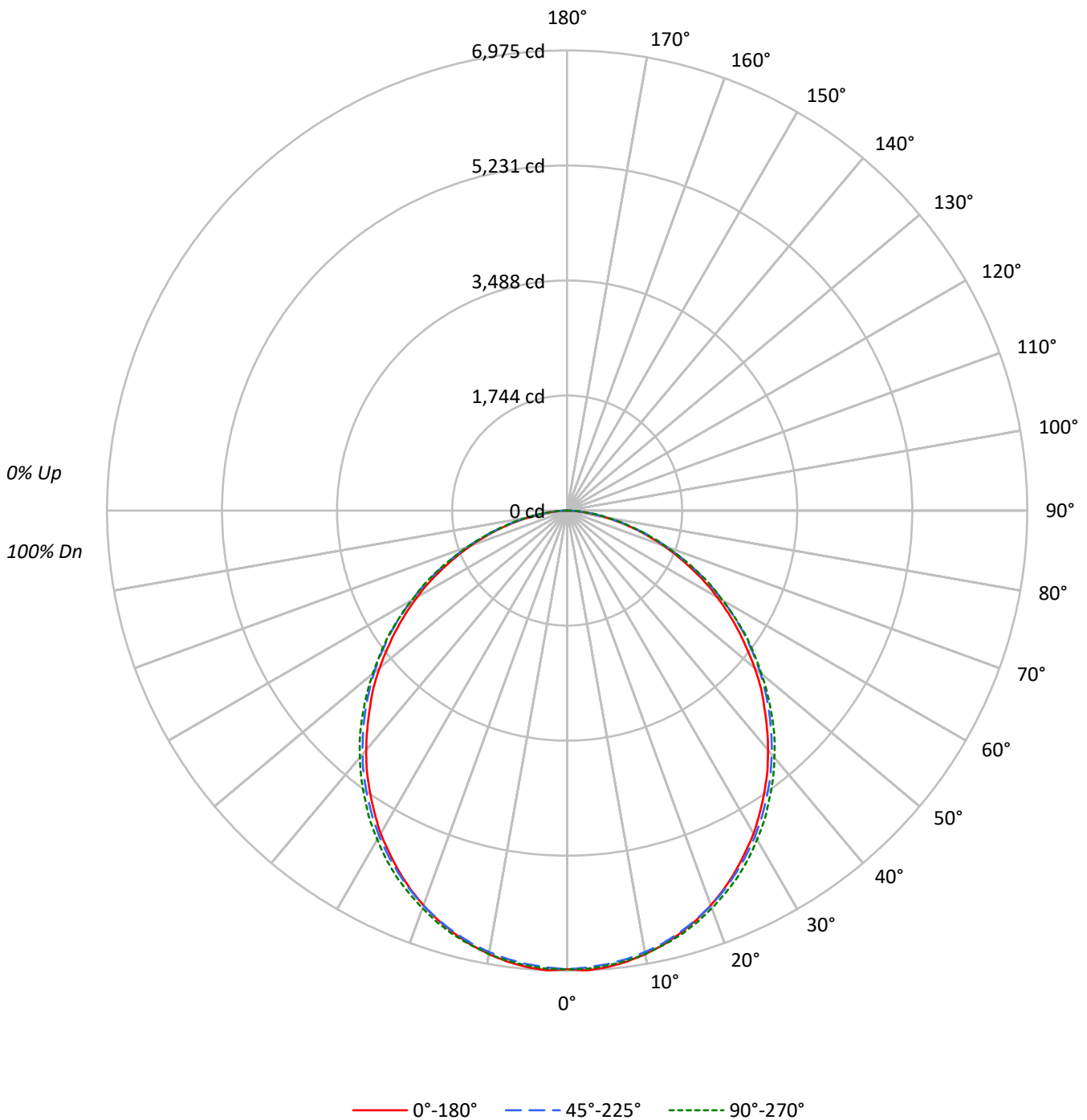
Input Watts (W): 126.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	9354	9354	9354
5°	9383	9324	9350
10°	9329	9284	9323
15°	9236	9216	9273
20°	9118	9121	9182
25°	8959	8995	9089
30°	8784	8851	8943
35°	8558	8675	8776
40°	8323	8473	8585
45°	8048	8244	8350
50°	7768	7995	8049
55°	7432	7699	7755
60°	7076	7318	7326
65°	6612	6867	6904
70°	6125	6297	6277
75°	5441	5636	5653
80°	4552	4714	4892
85°	3415	3673	3802



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	656.8	3.6
10°-20°	1868.9	10.2
20°-30°	2793.6	15.2
30°-40°	3300.5	17.9
40°-50°	3331.9	18.1
50°-60°	2907.7	15.8
60°-70°	2119.8	11.5
70°-80°	1143.2	6.2
80°-90°	286.2	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°	5319.3	28.9
0°-40°	8619.9	46.8
0°-60°	14859.5	80.7
0°-90°	18408.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18408.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6952	6952	6952	6952	6952	
5°	6947	6922	6903	6909	6923	659
15°	6631	6617	6616	6632	6657	1870
25°	6035	6036	6059	6098	6122	2779
35°	5210	5225	5281	5332	5343	3260
45°	4230	4260	4333	4387	4388	3266
55°	3168	3207	3282	3294	3306	2832
65°	2077	2122	2157	2161	2168	2064
75°	1047	1057	1084	1088	1087	1112
85°	221	226	238	249	246	269
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6952.1	6952.1	6952.1	6952.1	6952.1
2.5°	6975.1	6950.0	6930.2	6934.4	6951.1
5°	6946.9	6921.9	6903.1	6909.3	6922.9
7.5°	6896.8	6873.9	6859.2	6865.5	6883.3
10°	6827.9	6809.2	6795.6	6805.0	6823.8
12.5°	6740.3	6721.5	6716.3	6729.8	6746.5
15°	6630.7	6617.1	6616.1	6631.8	6656.8
17.5°	6507.6	6494.0	6501.3	6522.2	6544.1
20°	6367.7	6355.2	6369.8	6398.0	6412.6
22.5°	6208.1	6197.6	6223.7	6252.9	6271.7
25°	6034.8	6035.9	6058.8	6097.5	6122.5
27.5°	5842.8	5850.1	5884.6	5922.1	5947.2
30°	5654.0	5647.7	5696.7	5737.4	5756.2
32.5°	5434.8	5437.9	5495.3	5537.1	5565.2
35°	5210.4	5225.1	5281.4	5332.5	5343.0
37.5°	4984.0	4994.4	5062.3	5112.3	5125.9
40°	4738.8	4757.5	4824.3	4871.3	4888.0
42.5°	4483.1	4507.1	4579.1	4628.1	4650.1
45°	4229.5	4259.8	4332.8	4387.1	4388.1
47.5°	3984.3	4006.2	4077.1	4125.2	4119.9
50°	3710.9	3743.2	3819.4	3848.6	3845.5
52.5°	3431.2	3480.2	3550.2	3573.1	3570.0
55°	3168.2	3206.8	3282.0	3294.5	3306.0
57.5°	2895.8	2929.2	3010.6	3015.9	3013.8
60°	2629.7	2660.0	2719.5	2734.1	2722.6
62.5°	2361.6	2391.8	2445.0	2459.6	2457.6
65°	2076.7	2121.5	2157.0	2161.2	2168.5
67.5°	1811.6	1839.8	1874.2	1880.5	1875.3
70°	1557.0	1581.0	1600.8	1605.0	1595.6
72.5°	1294.0	1315.9	1344.1	1349.3	1338.9
75°	1046.7	1057.1	1084.2	1088.4	1087.4
77.5°	806.7	815.0	834.8	850.5	852.6
80°	587.5	590.6	608.4	619.9	631.3
82.5°	389.2	397.6	411.2	422.6	433.1
85°	221.2	226.5	237.9	249.4	246.3
87.5°	85.6	97.1	98.1	109.6	113.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)