

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: P475803

Luminaire Tested: **24GR-LD5-130-A125-UNV-L840-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475803
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-130-A125-UNV-L840-CD1-U
Description: GR 2'X4' LED TROFFER w/ A125 LENS
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13291.2 lumens
Efficiency: N/A
Efficacy: 149.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.2 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

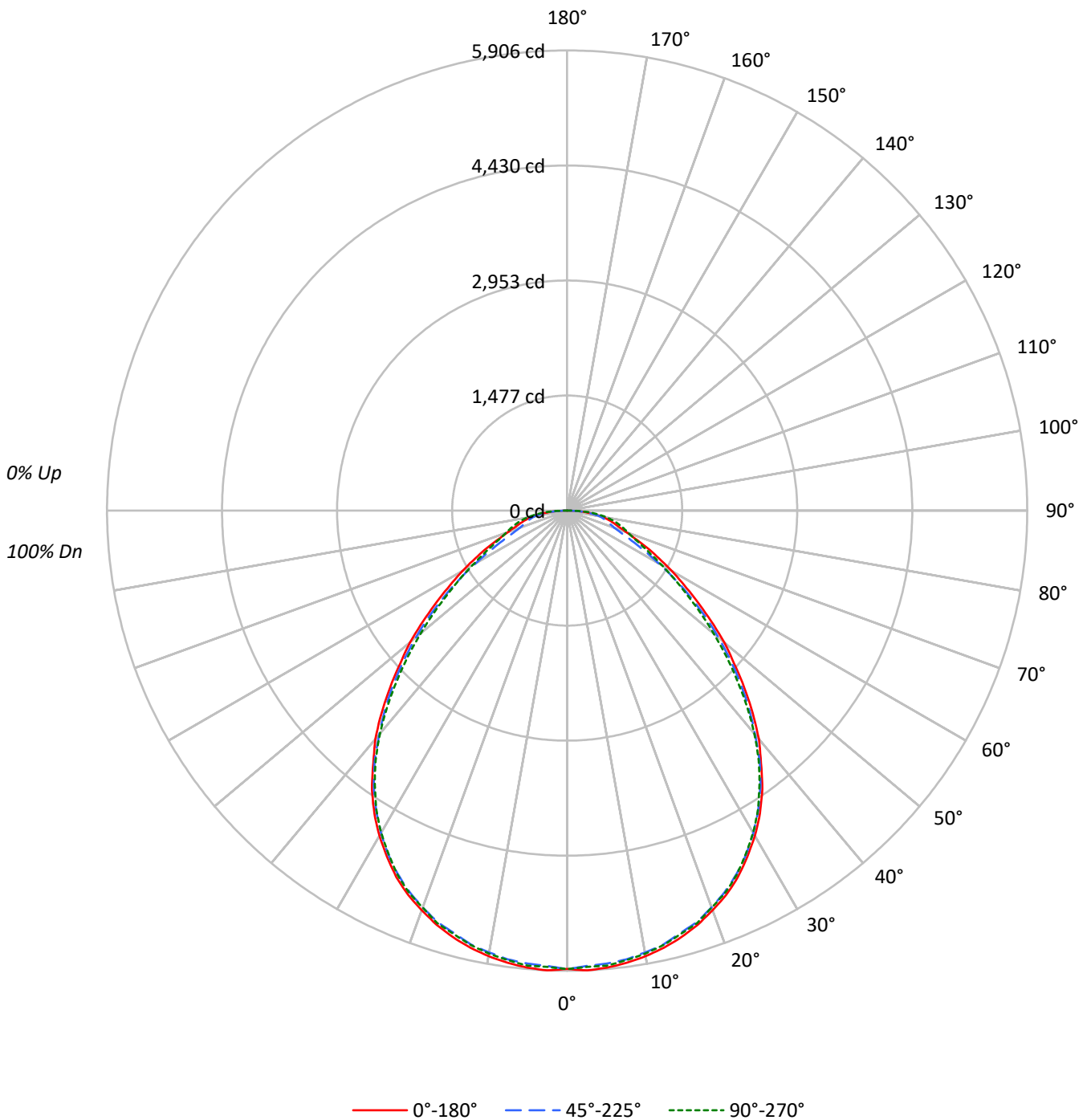
Input Watts (W): 88.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	105	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88	86					86			
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	76	73					73			
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	73	69	66	63					63			
4	86	74	66	60	83	73	66	60	71	64	59	68	63	58	66	61	57	55					55			
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49					49			
6	73	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43					43			
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39					39			
8	64	51	43	37	62	50	43	37	49	42	37	48	42	37	47	41	37	35					35			
9	60	47	39	34	58	46	39	34	45	38	34	44	38	34	43	38	33	32					32			
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	31	29					29			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7915	7915	7915
5°	7953	7883	7917
10°	7935	7867	7888
15°	7896	7819	7837
20°	7815	7760	7764
25°	7703	7640	7652
30°	7489	7422	7418
35°	7175	7103	7069
40°	6723	6591	6564
45°	6120	5997	5882
50°	5510	5315	5141
55°	4781	4522	4386
60°	4175	3644	3772
65°	3613	2897	3353
70°	3186	2540	3274
75°	3199	2761	3582
80°	3505	3281	4055
85°	3694	3572	4648



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	556.0	4.2
10°-20°	1588.6	12.0
20°-30°	2368.6	17.8
30°-40°	2692.6	20.3
40°-50°	2426.6	18.3
50°-60°	1747.9	13.2
60°-70°	1016.7	7.6
70°-80°	622.1	4.7
80°-90°	272.3	2.0
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°	4513.2	34.0
0°-40°	7205.7	54.2
0°-60°	11380.2	85.6
0°-90°	13291.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13291.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5883	5883	5883	5883	5883	
5°	5888	5847	5837	5849	5862	559
15°	5668	5637	5613	5622	5626	1598
25°	5188	5157	5146	5138	5154	2383
35°	4368	4338	4325	4300	4304	2718
45°	3216	3179	3152	3103	3091	2481
55°	2038	1989	1928	1908	1870	1838
65°	1135	1020	910	981	1053	1135
75°	615	558	531	605	689	655
85°	239	237	231	314	301	253
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5882.8	5882.8	5882.8	5882.8	5882.8
2.5°	5906.4	5874.9	5848.6	5849.9	5863.0
5°	5888.0	5847.3	5836.7	5848.6	5861.7
7.5°	5855.1	5817.0	5810.4	5803.9	5819.6
10°	5807.8	5781.5	5757.8	5764.4	5773.6
12.5°	5744.7	5722.3	5705.3	5692.1	5711.8
15°	5668.4	5636.9	5613.2	5622.4	5626.4
17.5°	5572.5	5542.2	5535.6	5530.4	5550.1
20°	5458.1	5439.6	5419.9	5425.2	5422.6
22.5°	5337.1	5309.5	5293.7	5285.8	5306.8
25°	5188.5	5156.9	5146.4	5138.5	5154.3
27.5°	5007.1	4990.0	4975.5	4965.0	4966.3
30°	4820.3	4803.2	4776.9	4769.1	4774.3
32.5°	4606.0	4586.3	4562.6	4539.0	4556.1
35°	4368.0	4337.8	4324.6	4299.6	4303.6
37.5°	4086.6	4073.5	4061.7	4028.8	4039.3
40°	3827.6	3792.1	3752.7	3732.9	3736.9
42.5°	3527.8	3491.0	3459.4	3431.8	3418.7
45°	3216.2	3179.4	3151.8	3103.1	3091.3
47.5°	2905.9	2871.7	2841.4	2803.3	2769.1
50°	2632.4	2569.3	2539.0	2499.6	2456.2
52.5°	2324.7	2287.9	2228.7	2195.8	2156.4
55°	2038.1	1989.4	1927.6	1907.9	1869.8
57.5°	1780.3	1727.7	1637.0	1629.1	1627.8
60°	1551.6	1480.6	1354.3	1363.5	1401.7
62.5°	1329.3	1228.1	1113.7	1154.5	1211.0
65°	1134.7	1020.3	909.9	980.9	1053.2
67.5°	948.0	845.5	752.1	846.8	923.0
70°	810.0	724.5	645.6	746.9	832.3
72.5°	694.3	628.5	577.2	669.3	761.3
75°	615.4	557.5	531.2	604.8	689.0
77.5°	541.7	490.4	482.6	548.3	610.1
80°	452.3	416.8	423.4	490.4	523.3
82.5°	344.5	334.0	335.3	419.4	426.0
85°	239.3	236.7	231.4	314.3	301.1
87.5°	121.0	123.6	122.3	178.8	160.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)