

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: P475623

Luminaire Tested: **24GR-LD5-130-F125-UNV-L840-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475623
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-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: 13237.4 lumens
Efficiency: N/A
Efficacy: 149.2 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

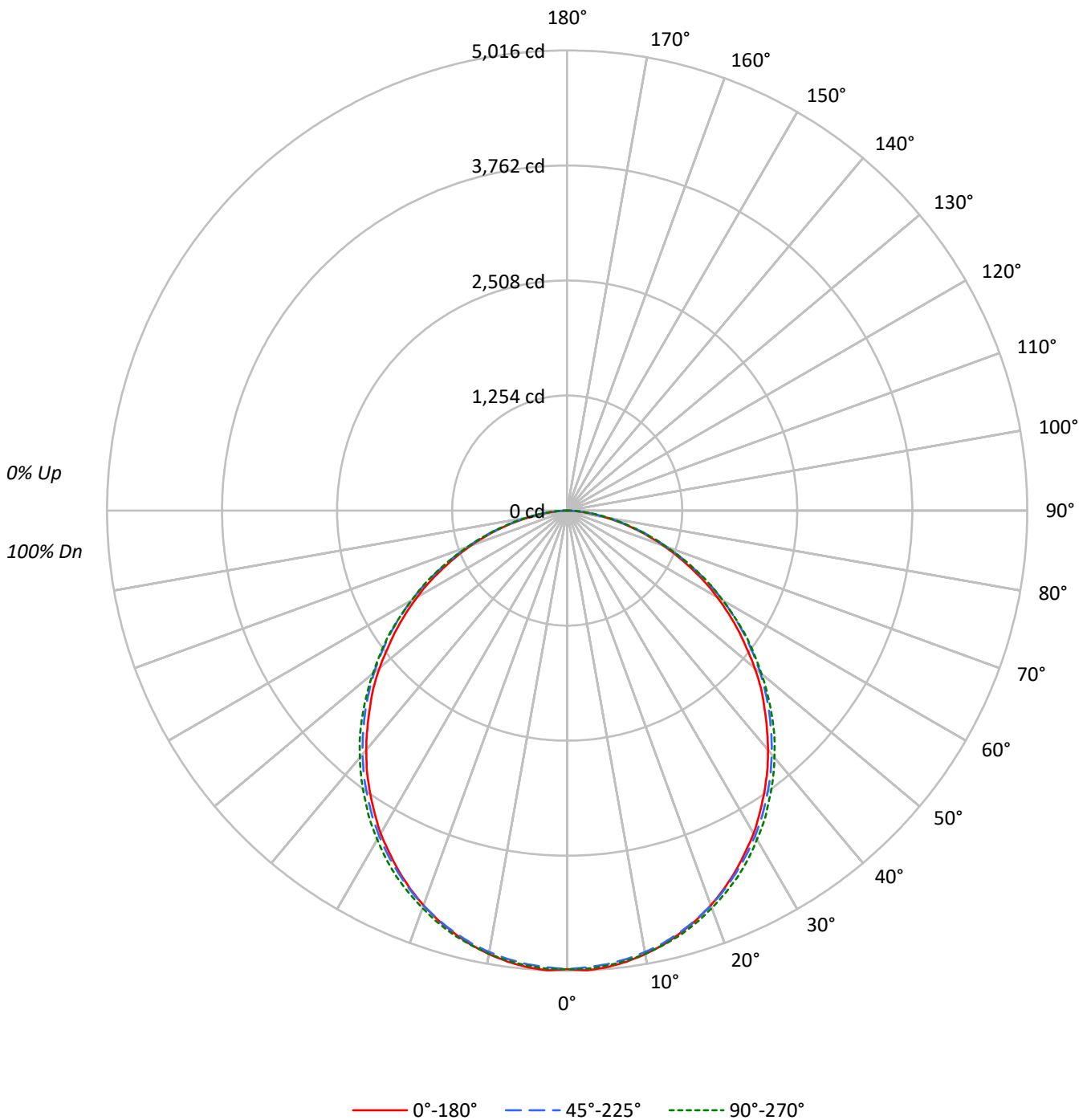
Input Watts (W): 88.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	6726	6726	6726
5°	6747	6704	6724
10°	6708	6676	6704
15°	6642	6627	6668
20°	6556	6558	6603
25°	6442	6468	6536
30°	6317	6364	6431
35°	6154	6238	6311
40°	5985	6093	6174
45°	5787	5929	6004
50°	5586	5749	5788
55°	5344	5536	5577
60°	5089	5262	5268
65°	4754	4938	4964
70°	4404	4528	4514
75°	3913	4053	4065
80°	3274	3390	3518
85°	2456	2641	2734



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	472.3	3.6
10°-20°	1343.9	10.2
20°-30°	2008.8	15.2
30°-40°	2373.4	17.9
40°-50°	2395.9	18.1
50°-60°	2090.9	15.8
60°-70°	1524.3	11.5
70°-80°	822.1	6.2
80°-90°	205.8	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°	3825.0	28.9
0°-40°	6198.4	46.8
0°-60°	10685.2	80.7
0°-90°	13237.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13237.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4999	4999	4999	4999	4999	
5°	4995	4977	4964	4968	4978	474
15°	4768	4758	4758	4769	4787	1344
25°	4340	4340	4357	4385	4403	1998
35°	3747	3757	3798	3835	3842	2344
45°	3041	3063	3116	3155	3155	2348
55°	2278	2306	2360	2369	2377	2036
65°	1493	1526	1551	1554	1559	1484
75°	753	760	780	783	782	800
85°	159	163	171	179	177	194
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4999.2	4999.2	4999.2	4999.2	4999.2
2.5°	5015.7	4997.7	4983.4	4986.4	4998.4
5°	4995.4	4977.4	4963.9	4968.4	4978.2
7.5°	4959.4	4942.9	4932.4	4936.9	4949.6
10°	4909.9	4896.4	4886.6	4893.4	4906.9
12.5°	4846.8	4833.3	4829.6	4839.3	4851.3
15°	4768.0	4758.3	4757.5	4768.8	4786.8
17.5°	4679.5	4669.7	4675.0	4690.0	4705.8
20°	4578.9	4569.9	4580.4	4600.7	4611.2
22.5°	4464.1	4456.6	4475.4	4496.4	4509.9
25°	4339.6	4340.3	4356.8	4384.6	4402.6
27.5°	4201.5	4206.7	4231.5	4258.5	4276.5
30°	4065.7	4061.2	4096.4	4125.7	4139.2
32.5°	3908.1	3910.3	3951.6	3981.6	4001.9
35°	3746.8	3757.3	3797.8	3834.6	3842.1
37.5°	3583.9	3591.4	3640.2	3676.2	3686.0
40°	3407.6	3421.1	3469.1	3502.9	3514.9
42.5°	3223.7	3241.0	3292.8	3328.0	3343.8
45°	3041.4	3063.1	3115.7	3154.7	3155.4
47.5°	2865.0	2880.8	2931.8	2966.3	2962.6
50°	2668.4	2691.7	2746.5	2767.5	2765.2
52.5°	2467.3	2502.6	2552.9	2569.4	2567.1
55°	2278.2	2306.0	2360.0	2369.0	2377.3
57.5°	2082.4	2106.4	2164.9	2168.7	2167.2
60°	1891.0	1912.8	1955.5	1966.1	1957.8
62.5°	1698.2	1719.9	1758.2	1768.7	1767.2
65°	1493.3	1525.6	1551.1	1554.1	1559.3
67.5°	1302.7	1323.0	1347.7	1352.2	1348.5
70°	1119.6	1136.9	1151.1	1154.1	1147.4
72.5°	930.5	946.3	966.5	970.3	962.8
75°	752.7	760.2	779.7	782.7	781.9
77.5°	580.1	586.1	600.3	611.6	613.1
80°	422.5	424.7	437.5	445.7	454.0
82.5°	279.9	285.9	295.7	303.9	311.4
85°	159.1	162.8	171.1	179.3	177.1
87.5°	61.5	69.8	70.5	78.8	81.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)