

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: P475878

Luminaire Tested: **24GR-LD5-130-FGW080-UNV-L850-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475878
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-L850-CD1-U
Description: GR 2'X4' LED TROFFER w/ FGW080 LENS
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11262.4 lumens
Efficiency: N/A
Efficacy: 127.0 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

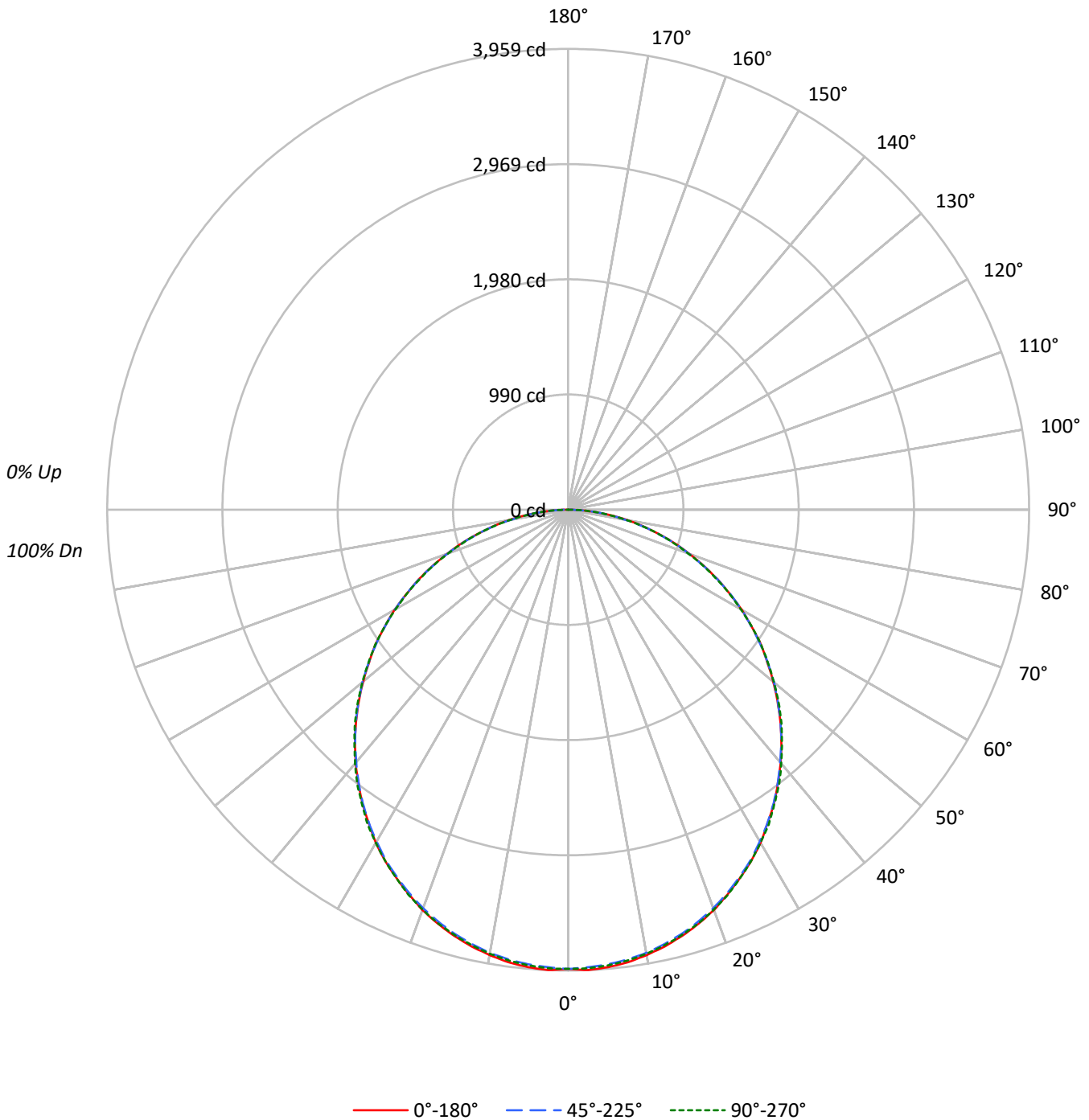
Input Watts (W): 88.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	5308	5308	5308
5°	5328	5295	5307
10°	5308	5281	5292
15°	5278	5253	5268
20°	5239	5216	5236
25°	5183	5168	5186
30°	5133	5113	5133
35°	5060	5052	5071
40°	4988	4974	5001
45°	4906	4906	4928
50°	4813	4826	4826
55°	4745	4727	4742
60°	4637	4634	4603
65°	4504	4500	4472
70°	4347	4337	4312
75°	4181	4168	4174
80°	3990	3911	3931
85°	3541	3541	3582



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	373.1	3.3
10°-20°	1065.6	9.5
20°-30°	1606.5	14.3
30°-40°	1925.3	17.1
40°-50°	1989.1	17.7
50°-60°	1801.3	16.0
60°-70°	1395.4	12.4
70°-80°	846.3	7.5
80°-90°	259.8	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°	3045.2	27.0
0°-40°	4970.5	44.1
0°-60°	8760.9	77.8
0°-90°	11262.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11262.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3945	3945	3945	3945	3945	
5°	3945	3929	3920	3920	3929	375
15°	3789	3778	3771	3774	3782	1069
25°	3491	3483	3481	3488	3494	1610
35°	3081	3069	3076	3081	3087	1926
45°	2578	2573	2578	2582	2590	1988
55°	2023	2011	2015	2018	2021	1802
65°	1415	1407	1414	1410	1405	1398
75°	804	804	802	794	803	853
85°	229	233	229	226	232	264
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3944.7	3944.7	3944.7	3944.7	3944.7
2.5°	3958.8	3944.7	3934.5	3934.5	3943.5
5°	3944.7	3929.4	3920.5	3920.5	3929.4
7.5°	3921.8	3905.2	3897.6	3897.6	3905.2
10°	3884.8	3872.1	3865.7	3865.7	3873.4
12.5°	3841.5	3830.0	3822.4	3823.6	3831.3
15°	3789.2	3777.8	3771.4	3773.9	3781.6
17.5°	3728.1	3716.6	3711.5	3715.3	3724.2
20°	3659.2	3645.2	3642.7	3646.5	3656.7
22.5°	3576.4	3567.5	3566.2	3572.6	3581.5
25°	3491.0	3483.3	3480.8	3488.4	3493.5
27.5°	3403.0	3389.0	3394.1	3395.4	3403.0
30°	3303.6	3290.9	3290.9	3296.0	3303.6
32.5°	3188.9	3181.3	3187.6	3194.0	3205.5
35°	3080.6	3069.1	3075.5	3080.6	3087.0
37.5°	2958.2	2955.7	2957.0	2964.6	2974.8
40°	2839.7	2832.0	2832.0	2842.2	2847.3
42.5°	2709.7	2703.3	2708.4	2713.5	2716.1
45°	2578.4	2573.3	2578.4	2582.2	2589.9
47.5°	2438.2	2439.5	2440.8	2443.3	2451.0
50°	2299.3	2304.4	2305.7	2310.8	2305.7
52.5°	2155.3	2156.5	2161.6	2162.9	2164.2
55°	2022.7	2011.2	2015.1	2017.6	2021.4
57.5°	1867.2	1863.4	1863.4	1867.2	1869.8
60°	1723.2	1715.5	1721.9	1714.3	1710.4
62.5°	1562.6	1565.1	1567.7	1566.4	1560.0
65°	1414.8	1407.1	1413.5	1409.7	1404.6
67.5°	1259.3	1252.9	1255.4	1254.2	1252.9
70°	1105.0	1105.0	1102.5	1096.1	1096.1
72.5°	959.7	952.1	954.6	947.0	947.0
75°	804.2	804.2	801.7	794.0	803.0
77.5°	658.9	655.1	652.6	647.5	647.5
80°	514.9	506.0	504.7	504.7	507.3
82.5°	373.4	367.1	364.5	364.5	365.8
85°	229.4	233.2	229.4	225.6	232.0
87.5°	108.3	103.2	103.2	107.1	109.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)