

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: P475848

Luminaire Tested: **24GR-LD5-130-FGW080-UNV-L835-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475848
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-L835-CD1-U
Description: GR 2'X4' LED TROFFER w/ FGW080 LENS
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11041.7 lumens
Efficiency: N/A
Efficacy: 124.5 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

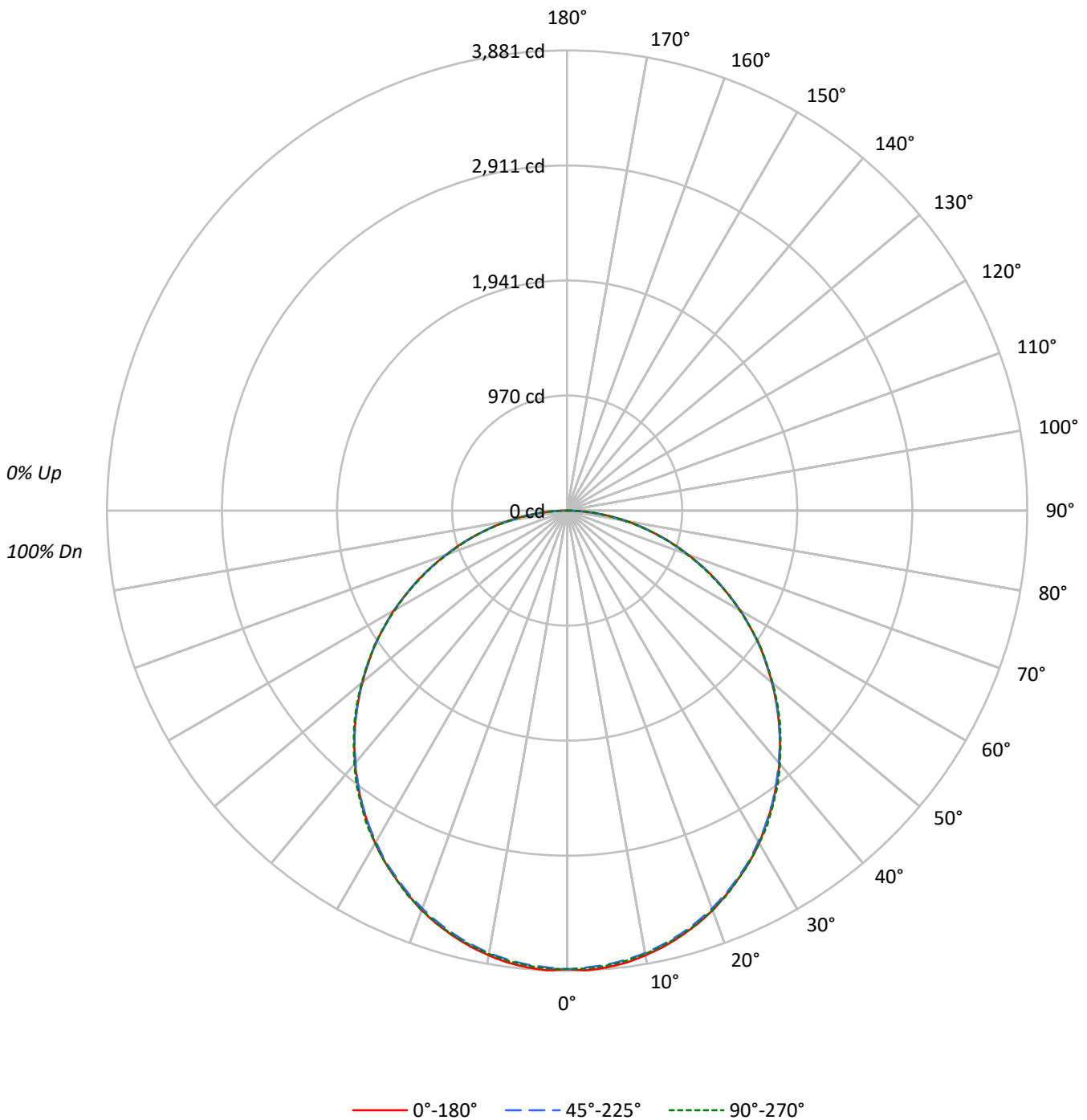
Input Watts (W): 88.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	5204	5204	5204
5°	5223	5191	5203
10°	5204	5178	5188
15°	5175	5150	5164
20°	5137	5113	5133
25°	5081	5066	5085
30°	5032	5013	5032
35°	4961	4953	4971
40°	4890	4877	4903
45°	4810	4810	4831
50°	4719	4732	4732
55°	4652	4634	4649
60°	4546	4543	4513
65°	4416	4412	4384
70°	4262	4252	4227
75°	4099	4086	4092
80°	3911	3834	3853
85°	3472	3472	3511



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	365.7	3.3
10°-20°	1044.7	9.5
20°-30°	1575.0	14.3
30°-40°	1887.5	17.1
40°-50°	1950.1	17.7
50°-60°	1766.0	16.0
60°-70°	1368.1	12.4
70°-80°	829.7	7.5
80°-90°	254.8	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°	2985.5	27.0
0°-40°	4873.0	44.1
0°-60°	8589.1	77.8
0°-90°	11041.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11041.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3867	3867	3867	3867	3867	
5°	3867	3852	3844	3844	3852	367
15°	3715	3704	3697	3700	3707	1048
25°	3422	3415	3412	3420	3425	1578
35°	3020	3009	3015	3020	3026	1888
45°	2528	2523	2528	2532	2539	1949
55°	1983	1972	1976	1978	1982	1767
65°	1387	1380	1386	1382	1377	1371
75°	788	788	786	778	787	836
85°	225	229	225	221	227	258
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3867.4	3867.4	3867.4	3867.4	3867.4
2.5°	3881.1	3867.4	3857.4	3857.4	3866.1
5°	3867.4	3852.4	3843.6	3843.6	3852.4
7.5°	3844.9	3828.6	3821.2	3821.2	3828.6
10°	3808.7	3796.2	3789.9	3789.9	3797.4
12.5°	3766.2	3754.9	3747.4	3748.7	3756.2
15°	3714.9	3703.7	3697.4	3699.9	3707.4
17.5°	3655.0	3643.7	3638.7	3642.5	3651.2
20°	3587.5	3573.7	3571.2	3575.0	3585.0
22.5°	3506.3	3497.5	3496.3	3502.5	3511.3
25°	3422.5	3415.0	3412.5	3420.0	3425.0
27.5°	3336.3	3322.6	3327.6	3328.8	3336.3
30°	3238.9	3226.4	3226.4	3231.4	3238.9
32.5°	3126.4	3118.9	3125.1	3131.4	3142.6
35°	3020.2	3008.9	3015.2	3020.2	3026.4
37.5°	2900.2	2897.7	2899.0	2906.5	2916.5
40°	2784.0	2776.5	2776.5	2786.5	2791.5
42.5°	2656.6	2650.3	2655.3	2660.3	2662.8
45°	2527.9	2522.9	2527.9	2531.6	2539.1
47.5°	2390.4	2391.7	2392.9	2395.4	2402.9
50°	2254.2	2259.2	2260.5	2265.4	2260.5
52.5°	2113.0	2114.3	2119.3	2120.5	2121.8
55°	1983.0	1971.8	1975.6	1978.1	1981.8
57.5°	1830.6	1826.9	1826.9	1830.6	1833.1
60°	1689.4	1681.9	1688.2	1680.7	1676.9
62.5°	1532.0	1534.5	1537.0	1535.7	1529.5
65°	1387.0	1379.5	1385.8	1382.0	1377.0
67.5°	1234.6	1228.3	1230.8	1229.6	1228.3
70°	1083.4	1083.4	1080.9	1074.6	1074.6
72.5°	940.9	933.4	935.9	928.4	928.4
75°	788.5	788.5	786.0	778.5	787.2
77.5°	646.0	642.3	639.8	634.8	634.8
80°	504.8	496.1	494.8	494.8	497.3
82.5°	366.1	359.9	357.4	357.4	358.6
85°	224.9	228.7	224.9	221.2	227.4
87.5°	106.2	101.2	101.2	105.0	107.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)