

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: P231785

Luminaire Tested: **24GR-LD5-130-F1-UNV-L935-CD2-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P231785
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33304)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/12/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-130-F1-UNV-L935-CD2-U
Description: METALUX 2X4 GRLED TROFFER
WITH F1 LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11296.5 lumens
Efficiency: N/A
Efficacy: 113.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.19 / 1.27
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

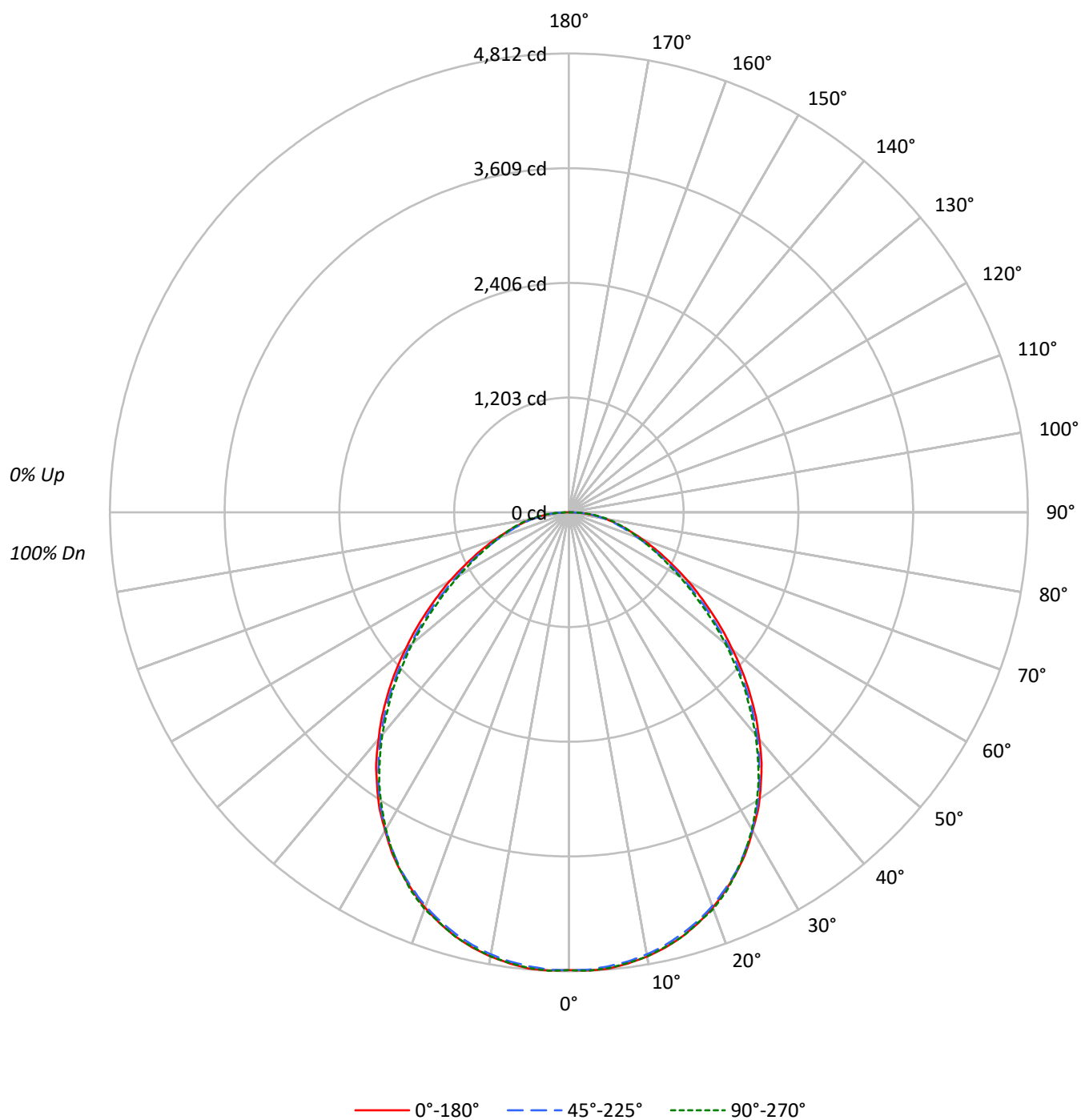
Input Watts (W): 99.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	109	105	101	97	107	103	99	96		98	95	93		95	92	90		91	89	87
2	100	92	86	81	98	91	85	80		87	82	78		84	80	76		81	77	74
3	92	82	74	68	90	80	73	68		78	71	66		75	70	65		72	68	64
4	85	73	65	59	82	72	64	58		70	63	57		67	61	57		65	60	56
5	78	66	57	51	76	65	57	51		63	56	50		61	55	50		59	54	49
6	73	60	51	45	71	59	51	45		57	50	44		55	49	44		54	48	44
7	67	54	46	40	66	54	46	40		52	45	40		51	44	39		49	44	39
8	63	50	42	36	61	49	41	36		48	41	36		47	40	36		46	40	35
9	59	46	38	33	58	45	38	33		44	37	32		43	37	32		42	36	32
10	55	43	35	30	54	42	35	30		41	34	30		40	34	29		39	33	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7353	7353	7353
5°	7387	7346	7376
10°	7357	7321	7354
15°	7299	7260	7305
20°	7192	7163	7215
25°	7036	7018	7033
30°	6814	6801	6786
35°	6557	6507	6481
40°	6206	6136	6086
45°	5806	5699	5630
50°	5335	5192	5103
55°	4866	4687	4550
60°	4419	4181	4073
65°	3980	3756	3692
70°	3645	3408	3503
75°	3406	3249	3490
80°	3380	3317	3645
85°	3444	3476	3972



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	454.4	4.0
10°-20°	1291.8	11.4
20°-30°	1908.4	16.9
30°-40°	2169.6	19.2
40°-50°	2026.1	17.9
50°-60°	1575.7	13.9
60°-70°	1045.5	9.3
70°-80°	605.0	5.4
80°-90°	220.0	1.9
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°	3654.5	32.4
0°-40°	5824.2	51.6
0°-60°	9426.0	83.4
0°-90°	11296.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11296.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4801	4801	4801	4801	4801	
5°	4804	4780	4778	4787	4798	456
15°	4603	4580	4578	4577	4607	1297
25°	4164	4146	4153	4144	4162	1914
35°	3507	3489	3480	3456	3466	2189
45°	2680	2659	2631	2597	2599	2065
55°	1822	1796	1755	1709	1704	1634
65°	1098	1065	1036	1017	1019	1098
75°	576	562	549	574	590	616
85°	196	192	198	224	226	213
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4801.0	4801.0	4801.0	4801.0	4801.0
2.5°	4808.1	4793.9	4801.0	4795.7	4811.6
5°	4804.5	4779.8	4778.0	4786.9	4797.5
7.5°	4771.0	4744.5	4749.8	4749.8	4767.5
10°	4730.4	4703.9	4707.5	4709.2	4728.6
12.5°	4675.7	4649.2	4650.9	4649.2	4668.5
15°	4603.3	4580.3	4578.5	4576.7	4606.7
17.5°	4514.9	4483.2	4493.8	4495.6	4511.5
20°	4412.5	4387.9	4394.9	4393.1	4426.7
22.5°	4290.7	4273.0	4278.4	4274.8	4306.6
25°	4163.6	4146.0	4153.0	4144.2	4161.9
27.5°	4020.6	4008.2	4001.1	3995.8	4008.2
30°	3852.8	3845.7	3845.7	3822.8	3836.9
32.5°	3693.9	3671.0	3671.0	3662.1	3653.3
35°	3506.8	3489.1	3480.2	3455.5	3466.1
37.5°	3319.6	3279.0	3275.4	3256.0	3256.0
40°	3104.1	3081.2	3068.8	3047.7	3044.1
42.5°	2899.4	2876.4	2855.2	2819.9	2812.8
45°	2680.4	2659.2	2630.9	2597.3	2599.1
47.5°	2463.2	2433.2	2406.7	2366.1	2360.8
50°	2238.9	2217.7	2178.9	2143.6	2141.8
52.5°	2028.8	1995.3	1959.9	1917.6	1917.6
55°	1822.2	1795.7	1755.2	1709.3	1703.9
57.5°	1624.4	1599.8	1553.8	1520.3	1511.5
60°	1442.6	1407.3	1364.9	1336.6	1329.6
62.5°	1260.7	1228.9	1197.1	1168.9	1167.1
65°	1098.3	1064.7	1036.5	1017.0	1018.8
67.5°	951.7	923.4	891.6	886.4	888.2
70°	814.0	784.0	761.0	773.4	782.3
72.5°	683.3	667.4	651.5	669.2	681.5
75°	575.6	561.5	549.1	573.8	589.7
77.5°	476.8	466.1	464.4	485.6	499.7
80°	383.2	370.8	376.1	400.9	413.2
82.5°	291.4	282.5	284.2	314.3	323.2
85°	196.0	192.4	197.8	224.2	226.0
87.5°	104.2	104.2	107.7	123.6	118.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)