

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: P234106

Luminaire Tested: **22GR-LD5-60-A-UNV-L935-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P234106
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33296)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/12/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-60-A-UNV-L935-CD1-U
Description: METALUX 2X2 GRLED TROFFER
WITH A LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5026.1 lumens
Efficiency: N/A
Efficacy: 101.4 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.22 / 1.25
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')
CIE Type: Direct

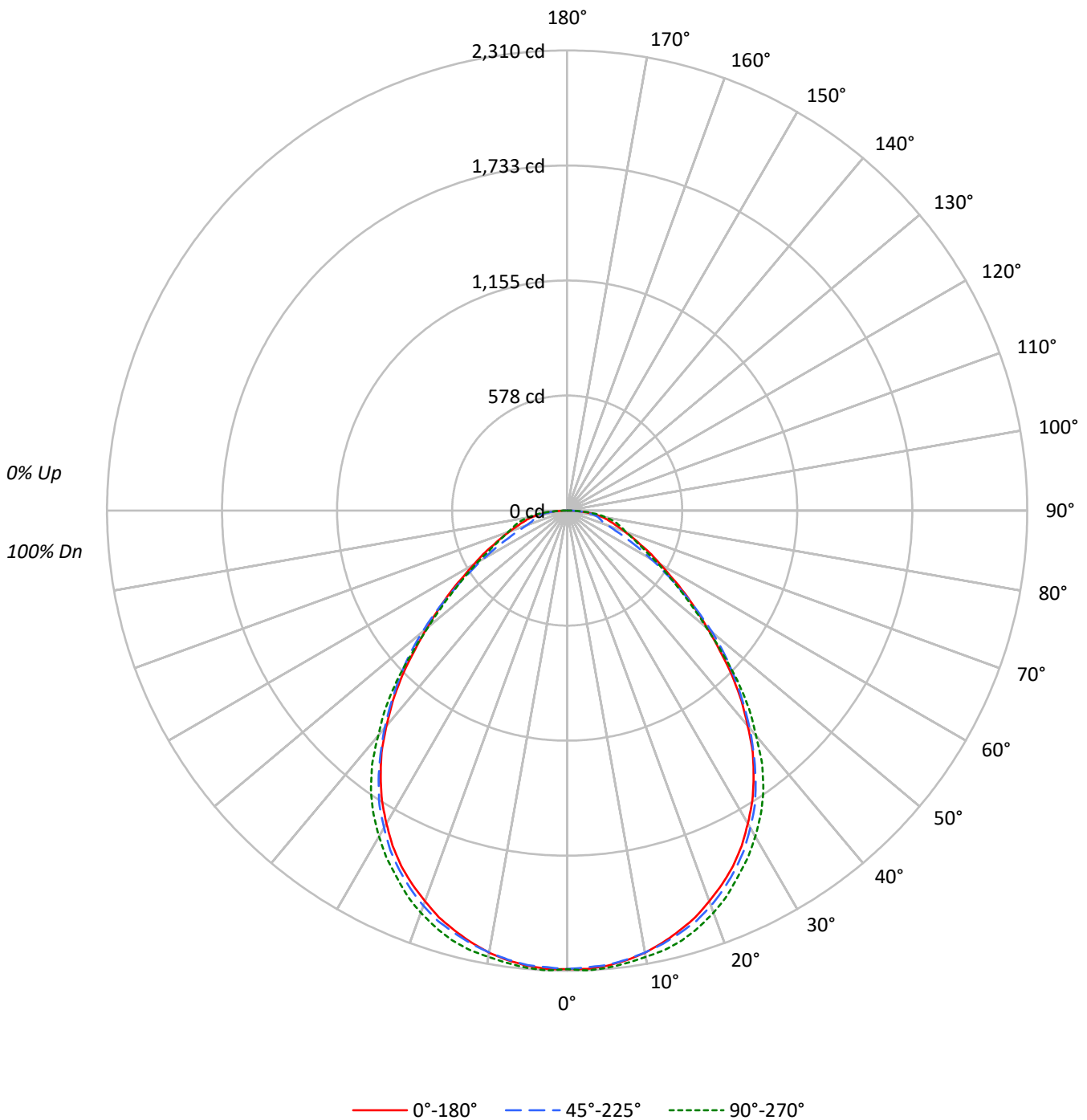
Input Watts (W): 49.58
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	94	87	82	99	92	86	81	88	84	79	85	81	78	82	79	76	74
3	93	84	76	70	91	82	75	70	79	73	68	76	71	67	74	70	66	64
4	86	75	67	61	84	74	66	60	71	65	60	69	63	59	67	62	58	56
5	80	68	59	53	78	67	59	53	65	58	53	63	57	52	61	56	51	49
6	74	62	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44
7	69	56	48	42	67	55	48	42	54	47	42	53	46	42	51	46	41	39
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37	36
9	60	48	40	35	59	47	40	35	46	39	34	45	39	34	44	38	34	32
10	57	44	37	32	55	44	36	32	43	36	31	42	36	31	41	35	31	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7371	7371	7371
5°	7373	7362	7407
10°	7329	7325	7398
15°	7236	7274	7403
20°	7111	7195	7322
25°	6960	7038	7166
30°	6708	6799	6985
35°	6379	6452	6712
40°	5897	5960	6170
45°	5297	5393	5477
50°	4580	4744	4533
55°	3997	3892	3840
60°	3461	3116	3326
65°	3093	2446	2986
70°	2869	2026	2946
75°	2864	2142	3270
80°	3172	2696	3688
85°	3311	2925	4170



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	217.8	4.3
10°-20°	620.4	12.3
20°-30°	917.5	18.3
30°-40°	1035.4	20.6
40°-50°	912.7	18.2
50°-60°	626.1	12.5
60°-70°	369.5	7.4
70°-80°	230.5	4.6
80°-90°	96.1	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°	1755.7	34.9
0°-40°	2791.1	55.5
0°-60°	4329.9	86.1
0°-90°	5026.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5026.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2302	2302	2302	2302	2302	
5°	2294	2289	2290	2298	2304	218
15°	2182	2185	2194	2221	2233	615
25°	1970	1977	1992	2018	2028	905
35°	1632	1646	1650	1690	1717	1017
45°	1170	1176	1191	1198	1209	898
55°	716	698	697	674	688	642
65°	408	359	323	373	394	411
75°	232	208	173	242	264	248
85°	90	84	80	104	114	97
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2301.7	2301.7	2301.7	2301.7	2301.7
2.5°	2302.9	2297.0	2294.7	2304.1	2310.0
5°	2293.6	2288.9	2290.1	2298.2	2304.1
7.5°	2277.2	2273.7	2273.7	2285.4	2291.3
10°	2253.8	2252.6	2252.6	2266.7	2274.9
12.5°	2221.0	2222.2	2226.9	2245.6	2259.6
15°	2182.5	2184.8	2194.1	2221.0	2232.8
17.5°	2140.4	2140.4	2159.1	2180.1	2194.1
20°	2086.6	2090.1	2111.1	2134.5	2148.5
22.5°	2031.6	2037.4	2055.0	2081.9	2094.7
25°	1969.6	1976.6	1991.8	2017.6	2028.1
27.5°	1897.0	1906.5	1922.8	1941.5	1963.8
30°	1814.1	1828.1	1838.6	1864.3	1888.9
32.5°	1729.8	1742.7	1754.4	1781.3	1809.4
35°	1631.6	1645.6	1650.3	1690.1	1716.9
37.5°	1531.0	1536.8	1539.2	1579.0	1608.2
40°	1410.5	1422.2	1425.7	1457.3	1476.0
42.5°	1294.7	1299.4	1306.4	1329.8	1352.0
45°	1169.6	1175.5	1190.7	1197.6	1209.4
47.5°	1038.6	1056.1	1073.7	1051.4	1052.6
50°	919.3	933.3	952.1	909.9	909.9
52.5°	812.9	819.9	821.0	786.0	793.0
55°	715.8	698.3	697.1	673.7	687.7
57.5°	618.7	595.3	587.1	580.1	596.5
60°	540.3	498.3	486.5	497.1	519.3
62.5°	476.0	422.2	400.0	426.9	446.8
65°	408.2	359.0	322.8	373.1	394.1
67.5°	355.6	308.8	262.0	333.4	348.5
70°	306.4	270.2	216.4	302.9	314.6
72.5°	266.6	238.6	187.2	273.7	287.7
75°	231.5	208.2	173.1	242.1	264.3
77.5°	203.5	177.7	161.4	209.4	236.2
80°	172.0	146.2	146.2	175.4	200.0
82.5°	135.7	114.6	118.2	142.7	160.2
85°	90.1	84.2	79.6	104.1	113.5
87.5°	45.6	46.8	42.1	53.8	55.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)