

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: P234088

Luminaire Tested: **22GR-LD5-60-F1-UNV-L950-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P234088
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33295)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/12/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-60-F1-UNV-L950-CD1-U
Description: METALUX 2X2 GRLED TROFFER
WITH F1 LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5936.9 lumens
Efficiency: N/A
Efficacy: 119.7 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.19 / 1.24
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')
CIE Type: Direct

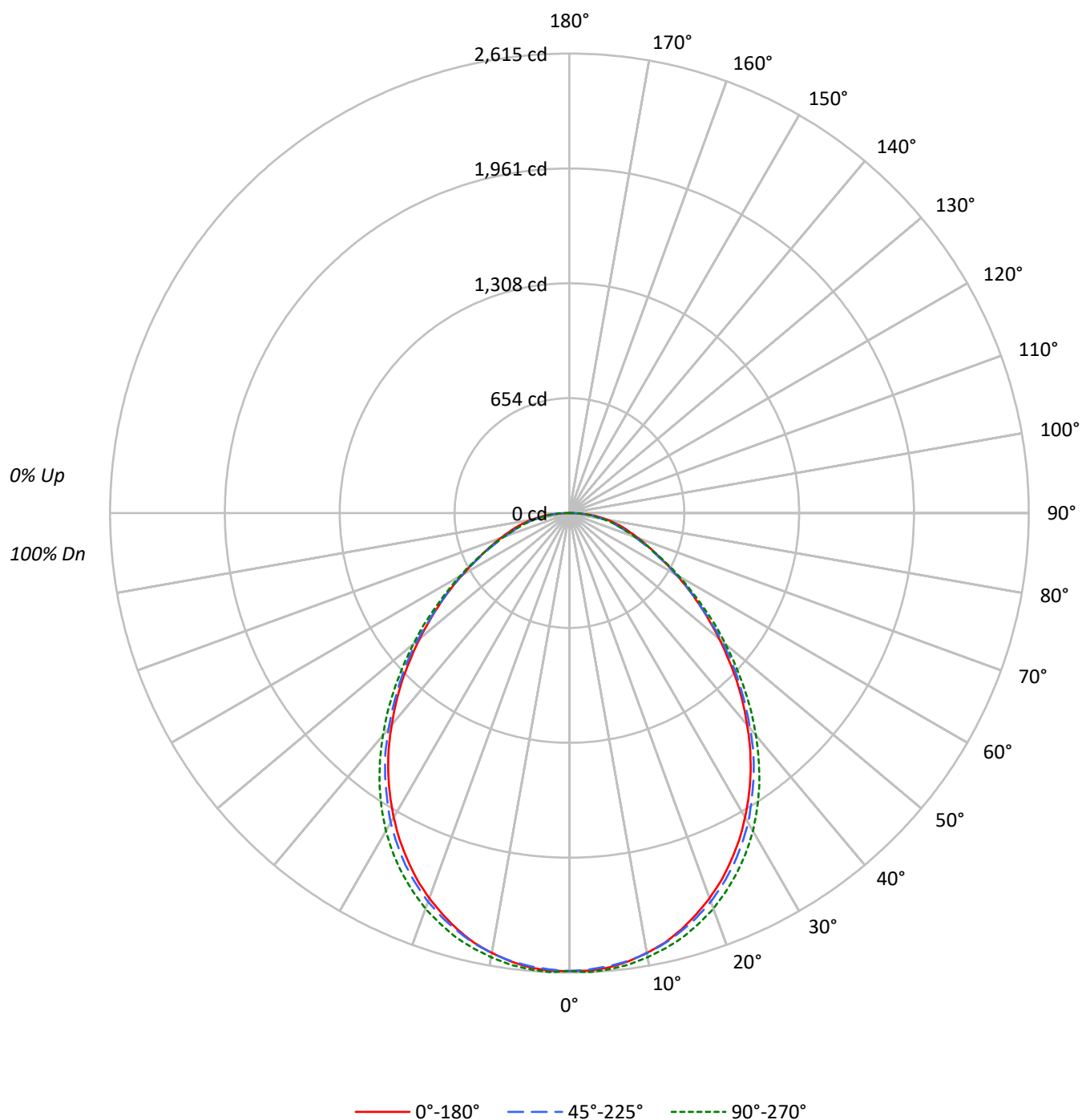
Input Watts (W): 49.58
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	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	100		
1	110	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85		
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73		
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	62		
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	60	56	54		
5	78	66	58	52	76	65	57	51	63	56	51	61	55	50	59	54	50	48		
6	73	60	52	45	71	59	51	45	57	50	45	56	49	45	54	49	44	42		
7	68	55	46	41	66	54	46	40	53	45	40	51	45	40	50	44	40	38		
8	63	50	42	36	62	50	42	36	48	41	36	47	41	36	46	40	36	34		
9	59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	33	31		
10	56	43	35	30	54	42	35	30	41	35	30	40	34	30	40	34	30	28		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8347	8347	8347
5°	8343	8321	8379
10°	8265	8270	8346
15°	8139	8166	8285
20°	7948	8019	8164
25°	7701	7808	7978
30°	7397	7524	7723
35°	7034	7147	7367
40°	6577	6686	6905
45°	6089	6183	6364
50°	5545	5634	5779
55°	5007	5022	5169
60°	4491	4509	4614
65°	4092	4009	4103
70°	3896	3676	3741
75°	3921	3546	3562
80°	4065	3582	3556
85°	4453	3796	3594



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	246.2	4.1
10°-20°	695.6	11.7
20°-30°	1018.1	17.1
30°-40°	1144.7	19.3
40°-50°	1055.6	17.8
50°-60°	813.6	13.7
60°-70°	536.9	9.0
70°-80°	312.5	5.3
80°-90°	113.8	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°	1959.9	33.0
0°-40°	3104.6	52.3
0°-60°	4973.8	83.8
0°-90°	5936.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5936.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2606	2606	2606	2606	2606	
5°	2595	2590	2588	2601	2606	246
15°	2455	2455	2463	2485	2499	691
25°	2179	2190	2210	2240	2258	1002
35°	1799	1807	1828	1865	1884	1122
45°	1344	1346	1365	1393	1405	1035
55°	897	895	900	915	926	805
65°	540	537	529	533	541	542
75°	317	303	287	281	288	334
85°	121	120	103	95	98	128
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2606.3	2606.3	2606.3	2606.3	2606.3
2.5°	2606.3	2600.9	2599.4	2609.1	2614.6
5°	2595.3	2589.8	2588.4	2600.9	2606.3
7.5°	2573.3	2569.1	2570.5	2584.3	2591.2
10°	2541.6	2540.2	2543.0	2558.1	2566.4
12.5°	2504.4	2503.0	2508.5	2525.1	2536.1
15°	2454.8	2454.8	2463.1	2485.1	2498.9
17.5°	2395.6	2399.7	2412.1	2434.2	2449.3
20°	2332.2	2336.3	2352.9	2377.6	2395.6
22.5°	2262.0	2267.4	2284.0	2314.3	2329.4
25°	2179.3	2190.3	2209.6	2239.9	2257.8
27.5°	2093.9	2106.3	2124.2	2161.4	2177.9
30°	2000.2	2008.5	2034.7	2069.1	2088.4
32.5°	1901.0	1909.3	1931.3	1972.7	1989.2
35°	1799.1	1807.4	1828.0	1865.2	1884.5
37.5°	1688.9	1695.8	1720.5	1749.5	1770.1
40°	1573.2	1582.9	1599.3	1633.8	1651.6
42.5°	1460.2	1464.4	1482.2	1516.7	1530.4
45°	1344.5	1345.9	1365.2	1392.8	1405.1
47.5°	1224.7	1227.4	1250.8	1267.4	1279.7
50°	1113.0	1114.5	1130.9	1146.1	1159.9
52.5°	1001.5	1001.5	1009.7	1026.3	1044.2
55°	896.8	895.4	899.5	914.7	925.7
57.5°	797.6	796.2	801.7	811.4	819.6
60°	701.2	698.4	704.0	709.4	720.4
62.5°	615.8	618.5	611.6	619.9	628.2
65°	540.0	537.3	529.0	533.1	541.4
67.5°	475.3	471.1	457.4	460.1	469.7
70°	416.1	407.8	392.6	392.6	399.5
72.5°	362.3	354.0	334.8	336.2	338.9
75°	316.9	303.0	286.6	281.0	287.9
77.5°	267.3	256.3	241.1	237.0	239.7
80°	220.4	212.1	194.2	188.7	192.8
82.5°	175.0	168.1	147.4	143.2	144.6
85°	121.2	119.8	103.3	95.1	97.8
87.5°	64.7	66.2	53.7	48.2	51.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)