

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: P225763

Luminaire Tested: **22GR-LD5-28-A19/156-UNV-L950-CD1-U**

Issue Date: 3/12/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P225763  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33284)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/12/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22GR-LD5-28-A19/156-UNV-L950-CD1-U  
Description: METALUX GR 2X2 LED TROFFER WITH A19/156 LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2640.8 lumens  
Efficiency: N/A  
Efficacy: 114.9 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.24 / 1.21  
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')  
CIE Type: Direct

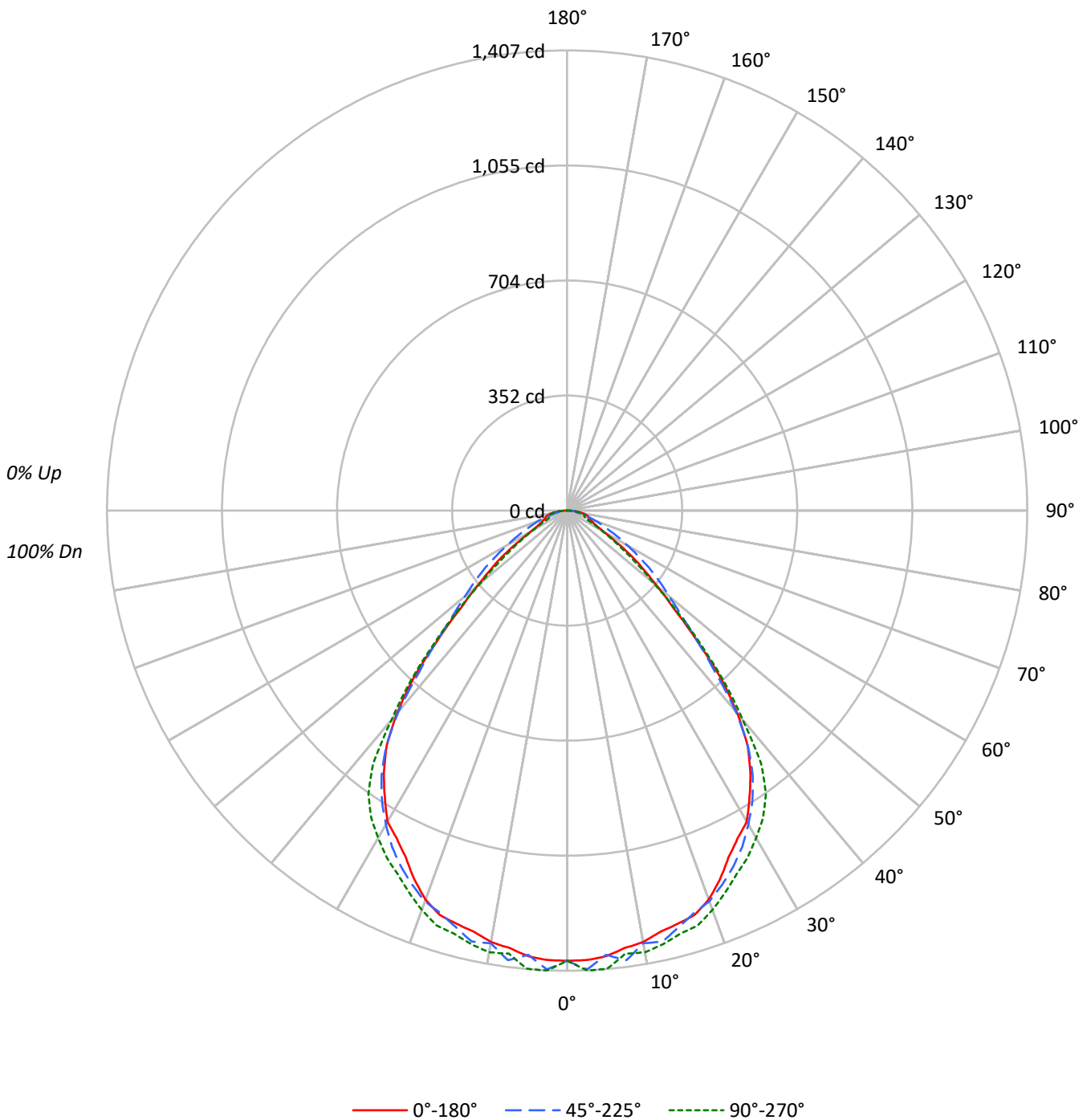
Input Watts (W): 22.986  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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					100			
1	111	107	103	100	108	105	102	99	101	98	96	97	95	93	93	91	90	88					88			
2	103	96	90	85	100	94	89	85	91	86	83	88	84	81	85	82	79	77					77			
3	95	86	79	74	93	85	79	73	82	77	72	79	75	71	77	73	70	68					68			
4	88	78	71	65	86	77	70	64	75	68	64	72	67	63	70	66	62	60					60			
5	82	71	63	58	80	70	63	57	68	62	57	66	61	56	64	59	56	54					54			
6	77	65	57	51	75	64	57	51	62	56	51	61	55	50	59	54	50	48					48			
7	72	60	52	46	70	59	51	46	57	51	46	56	50	46	55	49	45	44					44			
8	67	55	47	42	66	54	47	42	53	46	42	52	46	41	51	45	41	40					40			
9	63	51	43	38	62	50	43	38	49	43	38	48	42	38	47	42	38	36					36			
10	59	47	40	35	58	47	40	35	46	39	35	45	39	35	44	39	35	33					33			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	4408	4408	4408
5°	4396	4383	4521
10°	4356	4368	4460
15°	4336	4369	4439
20°	4313	4334	4428
25°	4129	4246	4334
30°	4061	4098	4273
35°	3819	3868	4143
40°	3384	3361	3494
45°	2528	2534	2604
50°	1780	2024	1724
55°	1313	1709	1178
60°	821	1351	769
65°	670	1070	537
70°	664	891	530
75°	824	655	685
80°	918	516	837
85°	911	959	937



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	131.0	5.0
10°-20°	373.2	14.1
20°-30°	552.7	20.9
30°-40°	619.1	23.4
40°-50°	454.9	17.2
50°-60°	254.3	9.6
60°-70°	141.7	5.4
70°-80°	83.3	3.2
80°-90°	30.6	1.2
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°	1056.9	40.0
0°-40°	1676.0	63.5
0°-60°	2385.2	90.3
0°-90°	2640.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2640.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1376	1376	1376	1376	1376	
5°	1368	1393	1363	1391	1406	129
15°	1308	1316	1318	1338	1339	369
25°	1168	1178	1202	1218	1226	542
35°	977	978	989	1034	1060	605
45°	558	604	559	599	575	436
55°	235	286	306	306	211	210
65°	88	157	141	181	71	91
75°	67	94	53	106	55	67
85°	25	37	26	34	26	27
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1376.3	1376.3	1376.3	1376.3	1376.3
2.5°	1375.7	1388.1	1404.3	1406.2	1407.4
5°	1367.6	1393.1	1363.3	1391.3	1406.2
7.5°	1349.0	1364.5	1386.3	1358.3	1366.4
10°	1339.6	1343.3	1343.3	1378.2	1371.4
12.5°	1318.5	1343.3	1349.5	1342.7	1357.6
15°	1307.9	1316.0	1317.9	1337.7	1339.0
17.5°	1296.0	1294.2	1289.8	1304.1	1329.7
20°	1265.5	1258.7	1271.8	1289.2	1299.2
22.5°	1220.8	1222.7	1238.2	1252.5	1263.7
25°	1168.5	1177.8	1201.5	1218.3	1226.4
27.5°	1129.3	1143.0	1159.2	1179.1	1195.3
30°	1098.2	1096.9	1108.1	1136.8	1155.4
32.5°	1037.9	1042.2	1054.1	1088.3	1114.4
35°	976.9	977.5	989.4	1034.1	1059.6
37.5°	906.5	901.5	908.5	957.0	973.8
40°	809.5	810.7	803.9	838.1	835.7
42.5°	696.2	706.2	670.8	715.5	712.4
45°	558.1	603.5	559.4	599.1	574.9
47.5°	440.5	507.7	471.0	500.2	454.8
50°	357.2	426.2	406.3	419.3	346.0
52.5°	293.0	349.1	355.3	358.4	270.0
55°	235.2	286.2	306.1	305.5	210.9
57.5°	173.6	232.7	255.7	265.1	159.9
60°	128.2	193.5	210.9	231.5	120.1
62.5°	103.3	169.9	174.2	202.8	91.5
65°	88.4	156.8	141.2	181.1	70.9
67.5°	78.4	146.2	115.1	161.8	60.3
70°	70.9	130.0	95.2	145.0	56.6
72.5°	69.1	110.7	73.4	129.4	56.0
75°	66.6	93.9	52.9	106.4	55.4
77.5°	57.2	80.3	37.9	82.2	51.7
80°	49.8	64.1	28.0	61.6	45.4
82.5°	38.6	48.5	24.8	46.7	36.7
85°	24.8	36.7	26.1	33.6	25.5
87.5°	11.8	20.6	18.7	18.0	13.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)