

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: P225751

Luminaire Tested: **22GR-LD5-36-A19/156-UNV-L935-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P225751
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-LD5-36-A19/156-UNV-L935-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: 3048.1 lumens
Efficiency: N/A
Efficacy: 88.2 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

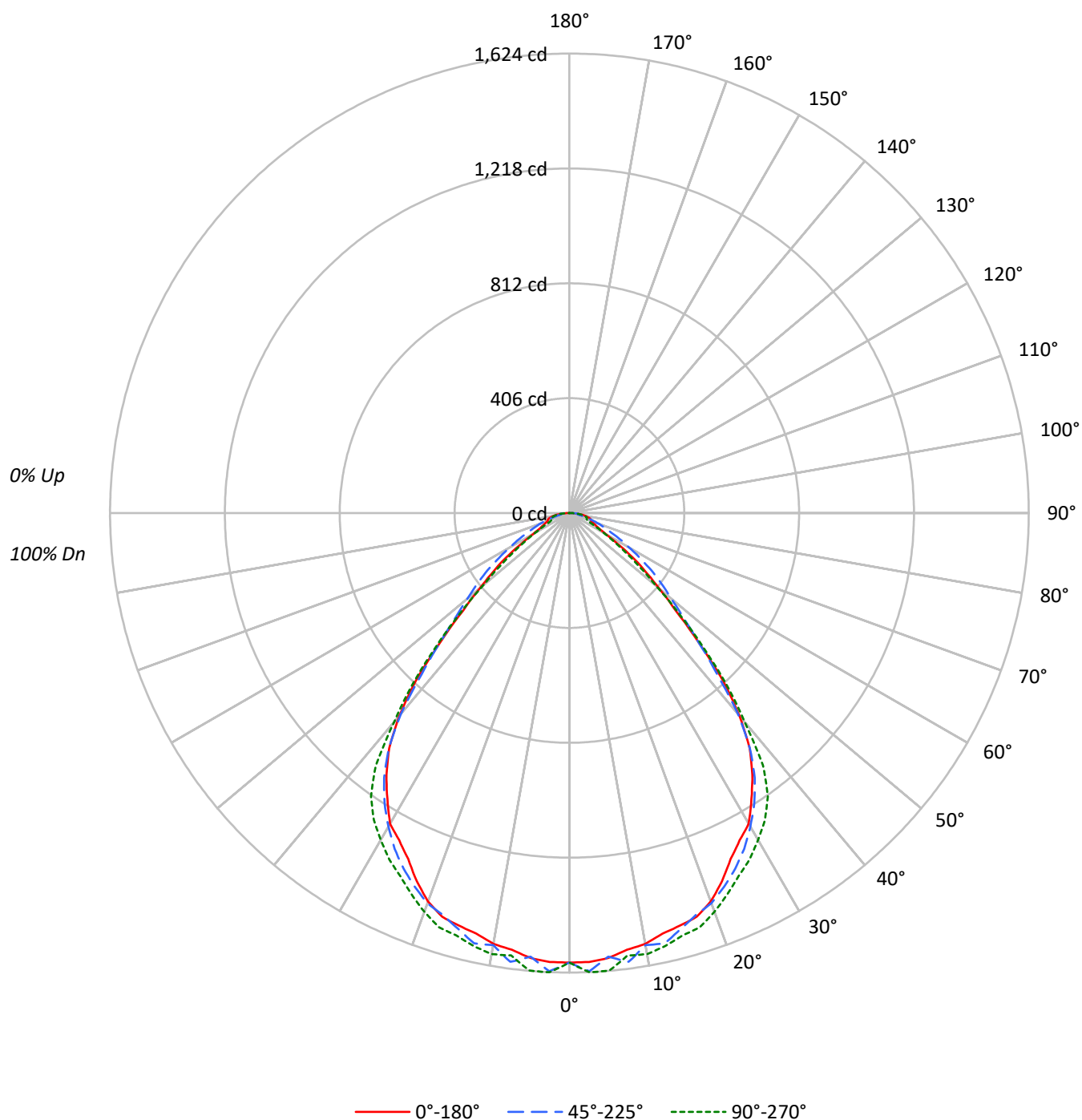
Input Watts (W): 34.56
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
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	111	107	103	100	108	105	102	99		101	98	96		97	95	93		93	91	90
2	103	96	90	85	100	94	89	85		91	86	83		88	84	81		85	82	79
3	95	86	79	74	93	85	79	73		82	77	72		79	75	71		77	73	70
4	88	78	71	65	86	77	70	64		75	68	64		72	67	63		70	66	62
5	82	71	63	58	80	70	63	57		68	62	57		66	61	56		64	59	56
6	77	65	57	51	75	64	57	51		62	56	51		61	55	50		59	54	50
7	72	60	52	46	70	59	51	46		57	51	46		56	50	46		55	49	45
8	67	55	47	42	66	54	47	42		53	46	42		52	46	41		51	45	41
9	63	51	43	38	62	50	43	38		49	43	38		48	42	38		47	42	38
10	59	47	40	35	58	47	40	35		46	39	35		45	39	35		44	39	35

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5087	5087	5087
5°	5074	5058	5218
10°	5028	5042	5147
15°	5005	5043	5124
20°	4978	5003	5111
25°	4766	4900	5002
30°	4687	4730	4932
35°	4408	4464	4782
40°	3906	3879	4032
45°	2918	2924	3005
50°	2054	2336	1989
55°	1516	1973	1359
60°	947	1559	888
65°	773	1235	621
70°	767	1029	612
75°	950	755	791
80°	1060	596	966
85°	1055	1110	1080



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.2	5.0
10°-20°	430.7	14.1
20°-30°	638.0	20.9
30°-40°	714.6	23.4
40°-50°	525.1	17.2
50°-60°	293.5	9.6
60°-70°	163.6	5.4
70°-80°	96.1	3.2
80°-90°	35.3	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°	1219.9	40.0
0°-40°	1934.5	63.5
0°-60°	2753.1	90.3
0°-90°	3048.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3048.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1589	1589	1589	1589	1589	
5°	1578	1608	1574	1606	1623	149
15°	1510	1519	1521	1544	1546	426
25°	1349	1360	1387	1406	1416	625
35°	1128	1128	1142	1194	1223	699
45°	644	697	646	692	664	503
55°	272	330	353	353	243	242
65°	102	181	163	209	82	105
75°	77	108	61	123	64	77
85°	29	42	30	39	29	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1588.6	1588.6	1588.6	1588.6	1588.6
2.5°	1587.9	1602.2	1620.9	1623.1	1624.5
5°	1578.5	1607.9	1573.5	1605.8	1623.1
7.5°	1556.9	1575.0	1600.0	1567.7	1577.1
10°	1546.2	1550.5	1550.5	1590.8	1582.9
12.5°	1521.8	1550.5	1557.7	1549.8	1567.1
15°	1509.6	1519.0	1521.1	1544.0	1545.5
17.5°	1495.9	1493.8	1488.8	1505.3	1534.8
20°	1460.7	1452.8	1468.0	1488.0	1499.6
22.5°	1409.0	1411.2	1429.2	1445.7	1458.6
25°	1348.7	1359.5	1386.8	1406.2	1415.5
27.5°	1303.5	1319.3	1338.0	1360.9	1379.6
30°	1267.6	1266.2	1279.1	1312.1	1333.6
32.5°	1197.9	1202.9	1216.6	1256.0	1286.2
35°	1127.5	1128.2	1141.9	1193.6	1223.1
37.5°	1046.4	1040.7	1048.6	1104.6	1124.0
40°	934.3	935.8	927.9	967.4	964.5
42.5°	803.6	815.2	774.2	825.9	822.3
45°	644.2	696.7	645.7	691.6	663.6
47.5°	508.5	586.0	543.7	577.4	525.0
50°	412.2	492.0	468.9	484.1	399.3
52.5°	338.2	402.9	410.0	413.7	311.7
55°	271.5	330.4	353.3	352.6	243.4
57.5°	200.3	268.6	295.2	305.9	184.5
60°	147.9	223.4	243.4	267.2	138.6
62.5°	119.3	196.1	201.1	234.1	105.6
65°	102.0	181.0	163.0	209.0	81.9
67.5°	90.5	168.8	132.9	186.7	69.7
70°	81.9	150.1	109.9	167.4	65.4
72.5°	79.7	127.8	84.7	149.3	64.6
75°	76.8	108.5	61.0	122.8	63.9
77.5°	66.0	92.6	43.8	94.8	59.6
80°	57.5	74.0	32.3	71.1	52.4
82.5°	44.5	56.0	28.7	53.9	42.3
85°	28.7	42.3	30.2	38.8	29.4
87.5°	13.7	23.7	21.5	20.8	15.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)