

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: P225764

Luminaire Tested: **22GR-LD5-32-A19/156-UNV-L950-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P225764
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-LD5-32-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: 2977.5 lumens
Efficiency: N/A
Efficacy: 99.4 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

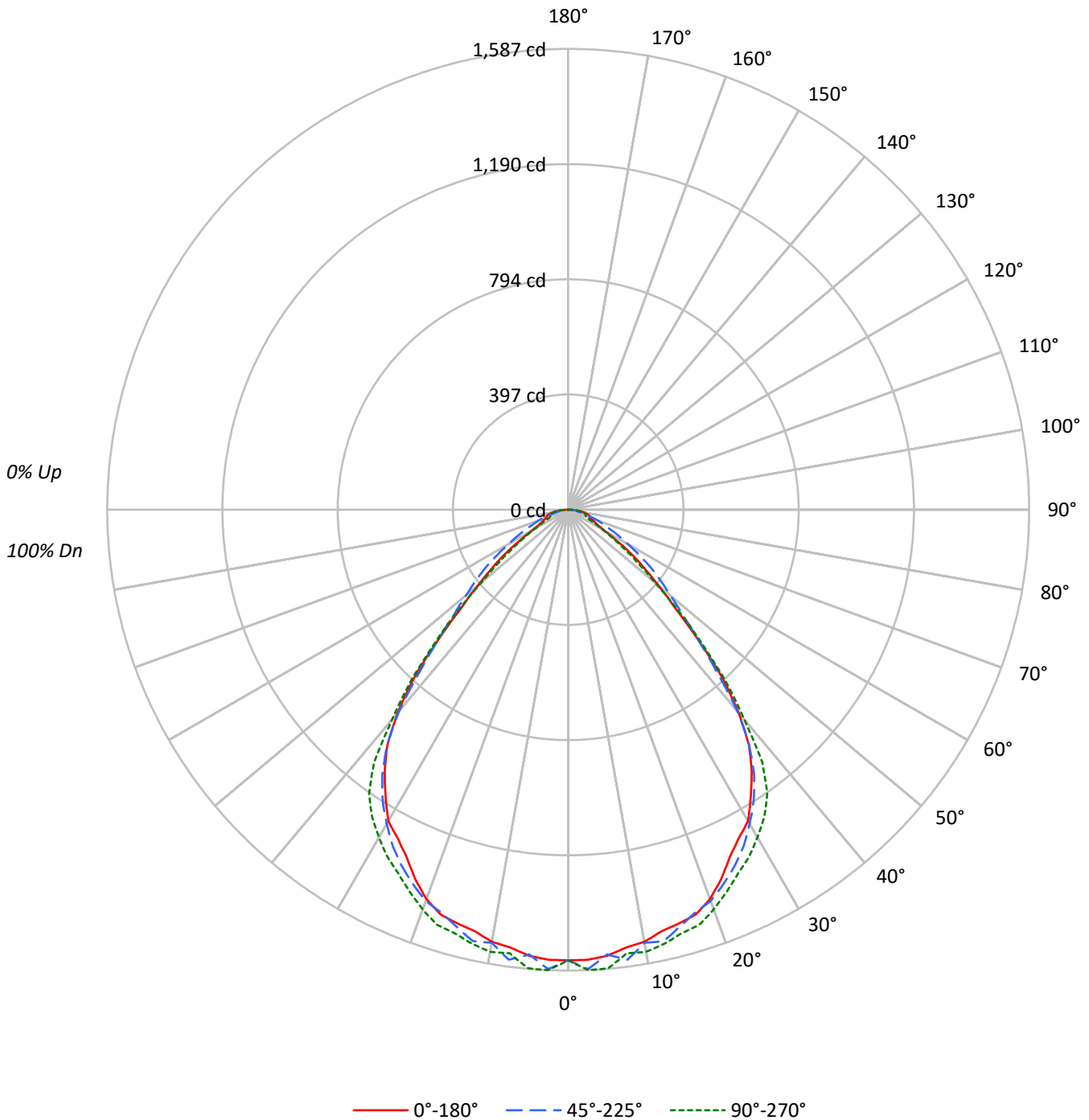
Input Watts (W): 29.95
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4970	4970	4970
5°	4957	4941	5097
10°	4912	4925	5028
15°	4889	4926	5005
20°	4863	4887	4992
25°	4655	4787	4886
30°	4579	4620	4818
35°	4306	4361	4671
40°	3816	3789	3938
45°	2850	2856	2936
50°	2006	2282	1943
55°	1481	1927	1328
60°	926	1523	867
65°	755	1206	606
70°	749	1006	598
75°	929	737	772
80°	1035	583	944
85°	1029	1084	1058



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.7	5.0
10°-20°	420.8	14.1
20°-30°	623.2	20.9
30°-40°	698.1	23.4
40°-50°	512.9	17.2
50°-60°	286.7	9.6
60°-70°	159.8	5.4
70°-80°	93.9	3.2
80°-90°	34.5	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°	1191.7	40.0
0°-40°	1889.7	63.5
0°-60°	2689.3	90.3
0°-90°	2977.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2977.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1552	1552	1552	1552	1552	
5°	1542	1571	1537	1569	1586	146
15°	1475	1484	1486	1508	1510	416
25°	1318	1328	1355	1374	1383	611
35°	1101	1102	1116	1166	1195	682
45°	629	680	631	676	648	492
55°	265	323	345	344	238	237
65°	100	177	159	204	80	103
75°	75	106	60	120	62	75
85°	28	41	30	38	29	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1551.8	1551.8	1551.8	1551.8	1551.8
2.5°	1551.1	1565.1	1583.4	1585.5	1586.9
5°	1542.0	1570.8	1537.1	1568.7	1585.5
7.5°	1521.0	1538.4	1563.0	1531.4	1540.5
10°	1510.4	1514.6	1514.6	1553.9	1546.2
12.5°	1486.6	1514.6	1521.6	1513.9	1530.7
15°	1474.7	1483.8	1485.8	1508.3	1509.7
17.5°	1461.3	1459.2	1454.3	1470.4	1499.2
20°	1427.0	1419.2	1434.0	1453.5	1464.8
22.5°	1376.4	1378.6	1396.0	1412.2	1424.8
25°	1317.5	1328.1	1354.6	1373.6	1382.7
27.5°	1273.3	1288.7	1306.9	1329.4	1347.6
30°	1238.2	1236.8	1249.4	1281.7	1302.8
32.5°	1170.2	1175.1	1188.4	1227.0	1256.4
35°	1101.4	1102.1	1115.5	1166.0	1194.7
37.5°	1022.1	1016.6	1024.2	1079.0	1097.9
40°	912.7	914.1	906.4	944.9	942.1
42.5°	785.1	796.2	756.3	806.8	803.3
45°	629.3	680.5	630.7	675.6	648.2
47.5°	496.7	572.5	531.1	564.0	512.8
50°	402.7	480.6	458.1	472.8	390.0
52.5°	330.4	393.6	400.6	404.1	304.5
55°	265.2	322.7	345.2	344.4	237.8
57.5°	195.7	262.4	288.3	298.8	180.3
60°	144.5	218.2	237.8	261.0	135.4
62.5°	116.5	191.6	196.5	228.7	103.1
65°	99.6	176.8	159.2	204.1	80.0
67.5°	88.4	164.9	129.8	182.4	68.1
70°	80.0	146.6	107.4	163.4	63.9
72.5°	77.9	124.9	82.8	146.0	63.2
75°	75.1	105.9	59.6	119.9	62.4
77.5°	64.5	90.5	42.8	92.6	58.2
80°	56.1	72.3	31.6	69.4	51.2
82.5°	43.5	54.7	28.0	52.6	41.4
85°	28.0	41.4	29.5	37.9	28.8
87.5°	13.3	23.1	21.0	20.4	14.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)