

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: P225744

Luminaire Tested: **22GR-LD5-36-A19/156-UNV-L930-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P225744
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-L930-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: 2890.5 lumens
Efficiency: N/A
Efficacy: 83.6 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

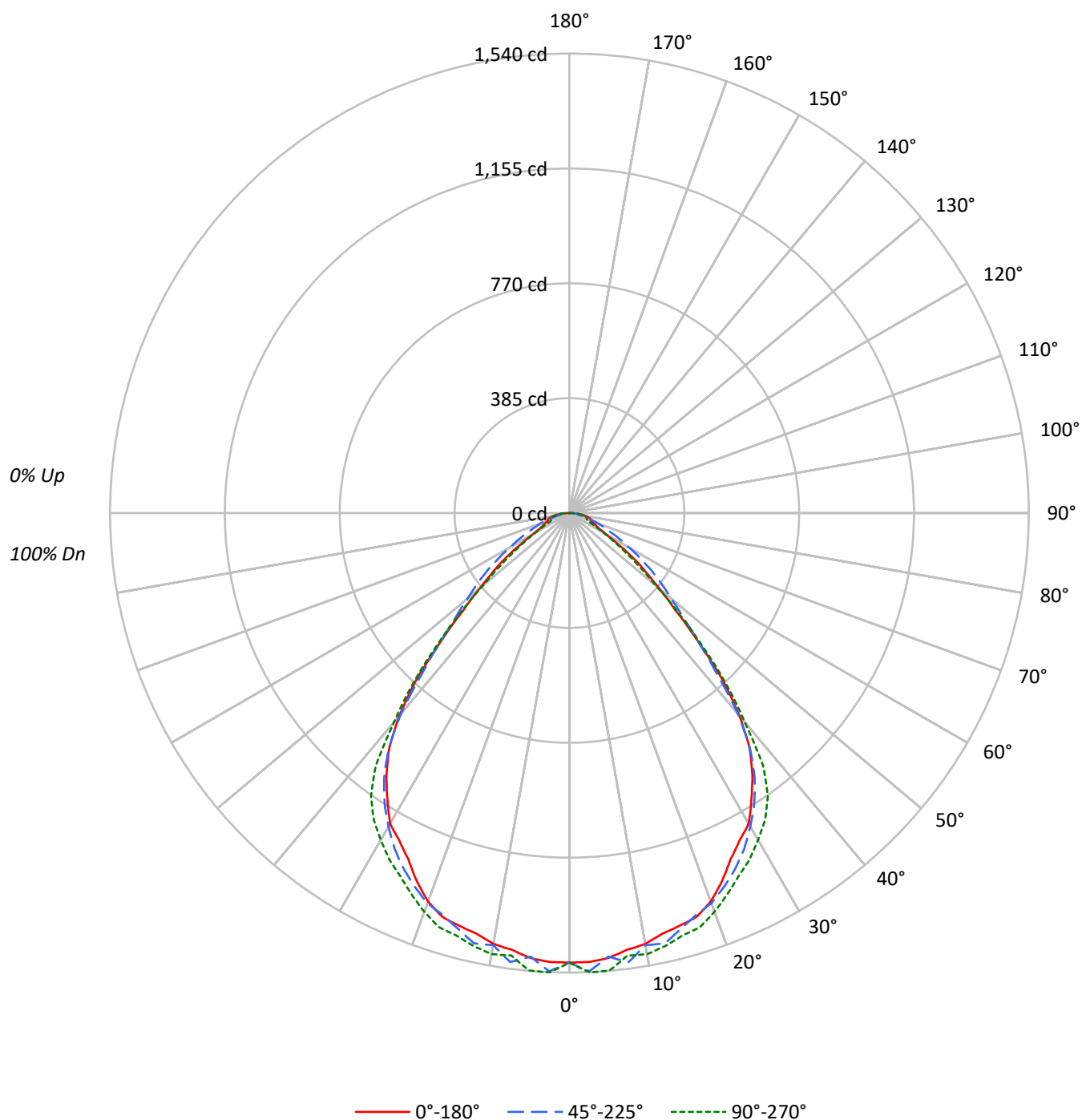
Input Watts (W): 34.56
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4824	4824	4824
5°	4812	4797	4948
10°	4768	4781	4881
15°	4746	4783	4859
20°	4721	4744	4846
25°	4519	4647	4743
30°	4445	4485	4677
35°	4180	4233	4534
40°	3704	3678	3824
45°	2767	2773	2850
50°	1948	2216	1887
55°	1437	1871	1289
60°	899	1478	842
65°	733	1172	589
70°	728	976	581
75°	902	716	750
80°	1003	566	917
85°	999	1051	1029



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.4	5.0
10°-20°	408.5	14.1
20°-30°	605.0	20.9
30°-40°	677.6	23.4
40°-50°	497.9	17.2
50°-60°	278.3	9.6
60°-70°	155.1	5.4
70°-80°	91.1	3.2
80°-90°	33.5	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°	1156.9	40.0
0°-40°	1834.5	63.5
0°-60°	2610.7	90.3
0°-90°	2890.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2890.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1506	1506	1506	1506	1506	
5°	1497	1525	1492	1523	1539	142
15°	1432	1440	1442	1464	1466	404
25°	1279	1289	1315	1334	1342	593
35°	1069	1070	1083	1132	1160	662
45°	611	661	612	656	629	477
55°	257	313	335	334	231	230
65°	97	172	155	198	78	100
75°	73	103	58	116	61	73
85°	27	40	29	37	28	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1506.4	1506.4	1506.4	1506.4	1506.4
2.5°	1505.8	1519.4	1537.1	1539.1	1540.5
5°	1496.9	1524.9	1492.2	1522.8	1539.1
7.5°	1476.5	1493.5	1517.3	1486.7	1495.5
10°	1466.2	1470.3	1470.3	1508.5	1501.0
12.5°	1443.1	1470.3	1477.1	1469.7	1486.0
15°	1431.6	1440.4	1442.5	1464.2	1465.6
17.5°	1418.6	1416.6	1411.8	1427.5	1455.3
20°	1385.2	1377.8	1392.0	1411.1	1422.0
22.5°	1336.2	1338.2	1355.3	1371.0	1383.2
25°	1279.0	1289.2	1315.1	1333.5	1342.3
27.5°	1236.1	1251.1	1268.8	1290.6	1308.2
30°	1202.0	1200.6	1212.9	1244.3	1264.7
32.5°	1135.9	1140.7	1153.7	1191.1	1219.8
35°	1069.2	1069.9	1082.8	1131.8	1159.8
37.5°	992.3	986.8	994.3	1047.5	1065.8
40°	886.0	887.4	879.9	917.3	914.6
42.5°	762.1	773.0	734.1	783.2	779.8
45°	610.9	660.6	612.2	655.8	629.3
47.5°	482.2	555.7	515.5	547.5	497.8
50°	390.9	466.5	444.7	459.0	378.7
52.5°	320.8	382.0	388.8	392.3	295.5
55°	257.4	313.2	335.1	334.4	230.8
57.5°	190.0	254.7	279.9	290.1	175.0
60°	140.3	211.8	230.8	253.4	131.4
62.5°	113.1	185.9	190.6	222.1	100.1
65°	96.7	171.6	154.6	198.2	77.7
67.5°	85.8	160.1	126.0	177.0	66.1
70°	77.7	142.4	104.2	158.7	62.0
72.5°	75.6	121.2	80.4	141.7	61.3
75°	72.9	102.8	57.9	116.4	60.6
77.5°	62.6	87.8	41.6	89.9	56.5
80°	54.4	70.1	30.7	67.4	49.7
82.5°	42.2	53.1	27.2	51.1	40.2
85°	27.2	40.2	28.6	36.7	28.0
87.5°	13.0	22.5	20.4	19.8	14.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)