

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: P225758

Luminaire Tested: **22GR-LD5-36-A19/156-UNV-L940-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P225758
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-L940-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: 3136.4 lumens
Efficiency: N/A
Efficacy: 90.8 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

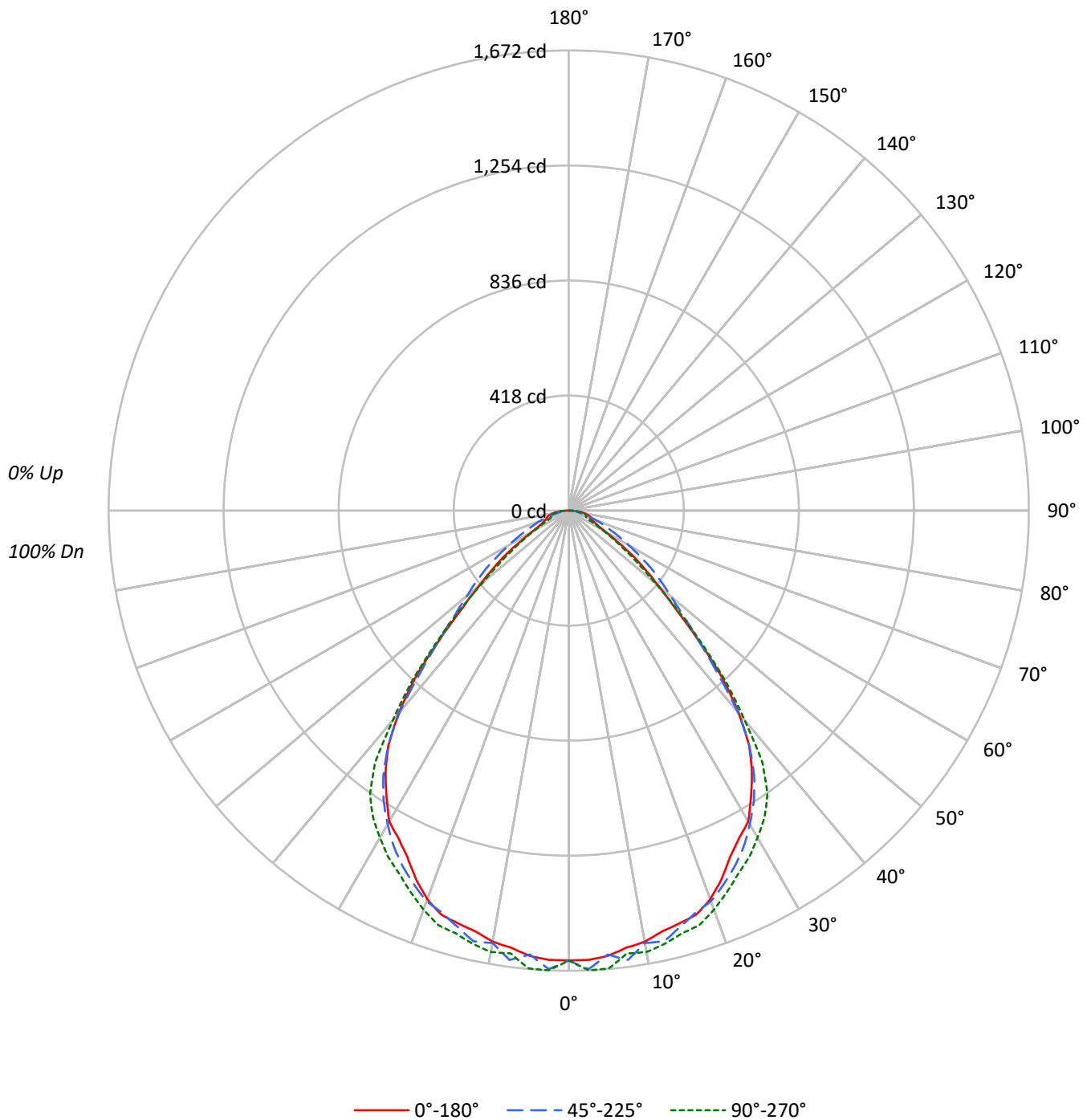
Input Watts (W): 34.56
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10
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°	5235	5235	5235
5°	5222	5205	5369
10°	5174	5188	5296
15°	5150	5189	5273
20°	5123	5148	5259
25°	4904	5042	5147
30°	4823	4867	5075
35°	4536	4593	4920
40°	4019	3992	4149
45°	3002	3009	3092
50°	2113	2404	2047
55°	1559	2030	1399
60°	975	1604	913
65°	795	1272	639
70°	789	1059	630
75°	978	777	814
80°	1090	614	994
85°	1088	1139	1113



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.6	5.0
10°-20°	443.2	14.1
20°-30°	656.4	20.9
30°-40°	735.3	23.4
40°-50°	540.3	17.2
50°-60°	302.0	9.6
60°-70°	168.3	5.4
70°-80°	98.9	3.2
80°-90°	36.3	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°	1255.3	40.0
0°-40°	1990.6	63.5
0°-60°	2832.9	90.3
0°-90°	3136.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3136.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1635	1635	1635	1635	1635	
5°	1624	1655	1619	1652	1670	154
15°	1553	1563	1565	1589	1590	439
25°	1388	1399	1427	1447	1456	643
35°	1160	1161	1175	1228	1258	719
45°	663	717	664	712	683	518
55°	279	340	364	363	250	249
65°	105	186	168	215	84	108
75°	79	112	63	126	66	79
85°	30	44	31	40	30	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1634.6	1634.6	1634.6	1634.6	1634.6
2.5°	1633.9	1648.6	1667.9	1670.1	1671.6
5°	1624.3	1654.6	1619.1	1652.3	1670.1
7.5°	1602.1	1620.6	1646.5	1613.2	1622.8
10°	1591.0	1595.5	1595.5	1636.8	1628.7
12.5°	1565.9	1595.5	1602.9	1594.7	1612.4
15°	1553.3	1563.0	1565.1	1588.8	1590.3
17.5°	1539.3	1537.1	1531.9	1548.9	1579.2
20°	1503.1	1494.9	1510.5	1531.1	1543.0
22.5°	1449.9	1452.1	1470.6	1487.5	1500.9
25°	1387.8	1398.9	1427.0	1447.0	1456.5
27.5°	1341.3	1357.5	1376.7	1400.3	1419.6
30°	1304.3	1302.8	1316.1	1350.1	1372.3
32.5°	1232.6	1237.8	1251.8	1292.5	1323.5
35°	1160.2	1160.9	1174.9	1228.2	1258.4
37.5°	1076.7	1070.8	1078.9	1136.6	1156.5
40°	961.4	962.9	954.8	995.4	992.4
42.5°	826.9	838.8	796.6	849.9	846.2
45°	662.9	716.8	664.4	711.6	682.8
47.5°	523.2	603.0	559.4	594.2	540.2
50°	424.2	506.2	482.5	498.1	410.9
52.5°	348.0	414.6	421.9	425.6	320.7
55°	279.3	340.0	363.6	362.8	250.5
57.5°	206.1	276.4	303.8	314.8	189.9
60°	152.2	229.8	250.5	274.9	142.6
62.5°	122.6	201.8	206.9	240.9	108.6
65°	104.9	186.2	167.8	215.0	84.3
67.5°	93.1	173.6	136.7	192.1	71.6
70°	84.3	154.5	113.1	172.2	67.3
72.5°	82.0	131.6	87.2	153.7	66.5
75°	79.0	111.6	62.8	126.3	65.8
77.5°	68.0	95.3	45.1	97.5	61.3
80°	59.1	76.1	33.3	73.2	53.9
82.5°	45.8	57.6	29.6	55.4	43.6
85°	29.6	43.6	31.0	39.9	30.3
87.5°	14.0	24.4	22.2	21.4	15.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)