

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: P213917

Luminaire Tested: **22GR-LD5-40-A19/156-UNV-L935-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P213917
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-LD5-40-A19/156-UNV-L935-CD1-U
Description: METALUX GR 2X2 LED TROFFER WITH A19/156 LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3429.8 lumens
Efficiency: N/A
Efficacy: 88.4 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

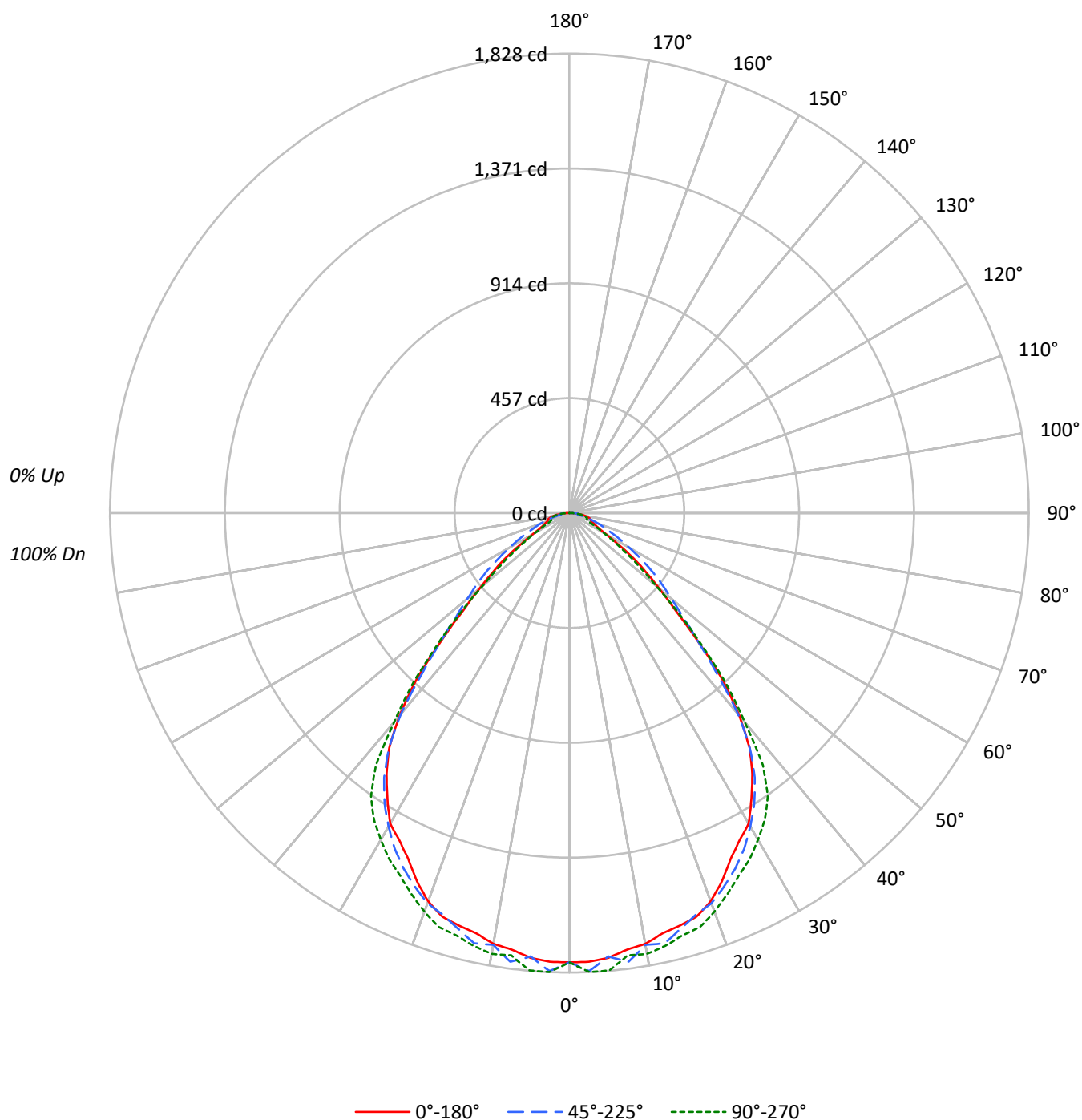
Input Watts (W): 38.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	5724	5724	5724
5°	5710	5692	5871
10°	5658	5673	5792
15°	5632	5675	5766
20°	5601	5629	5750
25°	5363	5514	5628
30°	5274	5322	5549
35°	4960	5023	5380
40°	4395	4365	4537
45°	3283	3290	3381
50°	2311	2629	2238
55°	1706	2219	1530
60°	1066	1755	999
65°	870	1390	698
70°	862	1158	688
75°	1069	850	890
80°	1193	671	1088
85°	1187	1246	1220



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.2	5.0
10°-20°	484.7	14.1
20°-30°	717.8	20.9
30°-40°	804.1	23.4
40°-50°	590.8	17.2
50°-60°	330.2	9.6
60°-70°	184.1	5.4
70°-80°	108.1	3.2
80°-90°	39.8	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°	1372.7	40.0
0°-40°	2176.7	63.5
0°-60°	3097.8	90.3
0°-90°	3429.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3429.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1788	1788	1788	1788	1788	
5°	1776	1809	1771	1807	1826	168
15°	1699	1709	1712	1737	1739	480
25°	1518	1530	1560	1582	1593	703
35°	1269	1270	1285	1343	1376	786
45°	725	784	726	778	747	566
55°	306	372	398	397	274	273
65°	115	204	183	235	92	119
75°	86	122	69	138	72	87
85°	32	48	34	44	33	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1787.5	1787.5	1787.5	1787.5	1787.5
2.5°	1786.7	1802.8	1823.8	1826.3	1827.9
5°	1776.2	1809.3	1770.6	1806.8	1826.3
7.5°	1751.9	1772.2	1800.4	1764.1	1774.5
10°	1739.8	1744.6	1744.6	1789.9	1781.0
12.5°	1712.3	1744.6	1752.8	1743.9	1763.2
15°	1698.6	1709.1	1711.6	1737.4	1739.0
17.5°	1683.3	1680.8	1675.2	1693.7	1726.9
20°	1643.6	1634.7	1651.7	1674.3	1687.2
22.5°	1585.5	1587.9	1608.1	1626.6	1641.3
25°	1517.6	1529.7	1560.4	1582.3	1592.7
27.5°	1466.7	1484.4	1505.4	1531.4	1552.4
30°	1426.3	1424.7	1439.2	1476.4	1500.6
32.5°	1347.9	1353.5	1368.9	1413.4	1447.3
35°	1268.7	1269.5	1284.9	1343.0	1376.1
37.5°	1177.4	1171.0	1179.8	1242.9	1264.6
40°	1051.3	1053.0	1044.1	1088.5	1085.3
42.5°	904.2	917.2	871.1	929.3	925.2
45°	724.9	783.9	726.5	778.2	746.6
47.5°	572.1	659.4	611.7	649.7	590.8
50°	463.8	553.5	527.7	544.7	449.3
52.5°	380.6	453.3	461.4	465.5	350.7
55°	305.5	371.7	397.5	396.8	274.0
57.5°	225.4	302.3	332.1	344.2	207.7
60°	166.4	251.3	274.0	300.6	156.0
62.5°	134.1	220.6	226.3	263.4	118.8
65°	114.8	203.7	183.4	235.2	92.1
67.5°	101.8	189.9	149.5	210.1	78.4
70°	92.1	168.9	123.7	188.3	73.5
72.5°	89.7	143.8	95.4	168.0	72.8
75°	86.4	122.1	68.7	138.2	71.9
77.5°	74.4	104.2	49.3	106.7	67.1
80°	64.7	83.2	36.4	80.0	59.0
82.5°	50.1	63.1	32.3	60.6	47.7
85°	32.3	47.7	33.9	43.6	33.2
87.5°	15.4	26.7	24.2	23.5	17.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)