

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: P225743

Luminaire Tested: **22GR-LD5-32-A19/156-UNV-L930-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P225743
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-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: 2593.7 lumens
Efficiency: N/A
Efficacy: 86.6 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

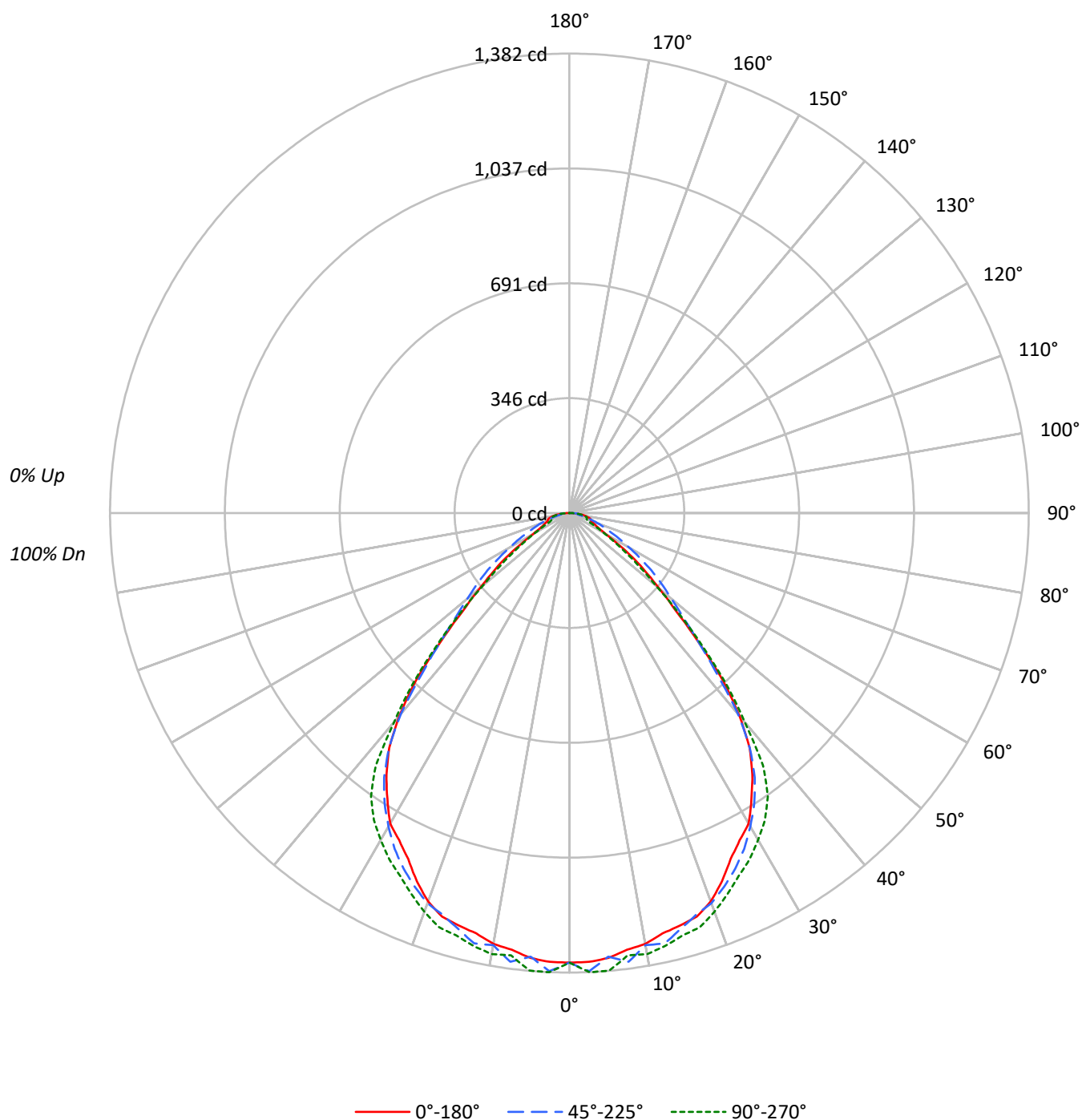
Input Watts (W): 29.95
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					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°	4329	4329	4329
5°	4318	4304	4440
10°	4279	4291	4380
15°	4259	4291	4360
20°	4236	4257	4349
25°	4055	4170	4256
30°	3988	4025	4196
35°	3751	3798	4069
40°	3324	3301	3431
45°	2483	2488	2558
50°	1748	1988	1693
55°	1290	1679	1156
60°	806	1326	755
65°	658	1051	528
70°	653	875	521
75°	809	642	673
80°	902	507	823
85°	897	944	922



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.7	5.0
10°-20°	366.5	14.1
20°-30°	542.9	20.9
30°-40°	608.1	23.4
40°-50°	446.8	17.2
50°-60°	249.7	9.6
60°-70°	139.2	5.4
70°-80°	81.8	3.2
80°-90°	30.1	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°	1038.0	40.0
0°-40°	1646.1	63.5
0°-60°	2342.6	90.3
0°-90°	2593.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2593.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1352	1352	1352	1352	1352	
5°	1343	1368	1339	1366	1381	127
15°	1284	1292	1294	1314	1315	363
25°	1148	1157	1180	1196	1204	532
35°	959	960	972	1016	1041	594
45°	548	593	549	588	565	428
55°	231	281	301	300	207	206
65°	87	154	139	178	70	90
75°	65	92	52	104	54	66
85°	24	36	26	33	25	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1351.8	1351.8	1351.8	1351.8	1351.8
2.5°	1351.1	1363.3	1379.2	1381.0	1382.3
5°	1343.2	1368.3	1338.9	1366.4	1381.0
7.5°	1324.9	1340.1	1361.5	1334.1	1341.9
10°	1315.7	1319.4	1319.4	1353.6	1346.8
12.5°	1294.9	1319.4	1325.4	1318.7	1333.4
15°	1284.5	1292.5	1294.3	1313.9	1315.1
17.5°	1272.9	1271.1	1266.8	1280.8	1305.9
20°	1243.0	1236.2	1249.1	1266.2	1276.0
22.5°	1199.0	1200.8	1216.1	1230.2	1241.2
25°	1147.7	1156.8	1180.1	1196.5	1204.5
27.5°	1109.1	1122.6	1138.5	1158.0	1173.9
30°	1078.5	1077.4	1088.4	1116.5	1134.8
32.5°	1019.3	1023.6	1035.2	1068.8	1094.5
35°	959.4	960.1	971.6	1015.7	1040.7
37.5°	890.4	885.5	892.2	939.9	956.4
40°	795.1	796.2	789.5	823.1	820.7
42.5°	683.8	693.6	658.8	702.7	699.7
45°	548.2	592.8	549.4	588.5	564.7
47.5°	432.6	498.6	462.6	491.3	446.7
50°	350.8	418.6	399.0	411.9	339.8
52.5°	287.8	342.8	348.9	352.0	265.2
55°	231.0	281.1	300.7	300.0	207.1
57.5°	170.5	228.5	251.2	260.3	157.0
60°	125.9	190.1	207.1	227.3	117.9
62.5°	101.4	166.9	171.1	199.2	89.9
65°	86.8	154.0	138.7	177.9	69.7
67.5°	77.0	143.6	113.1	158.9	59.3
70°	69.7	127.8	93.5	142.4	55.6
72.5°	67.8	108.8	72.1	127.1	55.0
75°	65.4	92.2	51.9	104.5	54.4
77.5°	56.3	78.8	37.3	80.7	50.8
80°	48.9	63.0	27.5	60.5	44.6
82.5°	37.9	47.6	24.4	45.8	36.1
85°	24.4	36.1	25.7	33.0	25.1
87.5°	11.6	20.2	18.4	17.7	12.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)