

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: P219222

Luminaire Tested: **24GR-LD5-42-A19/156-UNV-L935-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P219222
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33306)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/12/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-42-A19/156-UNV-L935-CD1-U
Description: METALUX GR 2X4 LED TROFFER WITH A19/156 LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3552.3 lumens
Efficiency: N/A
Efficacy: 102.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.2 / 1.26
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

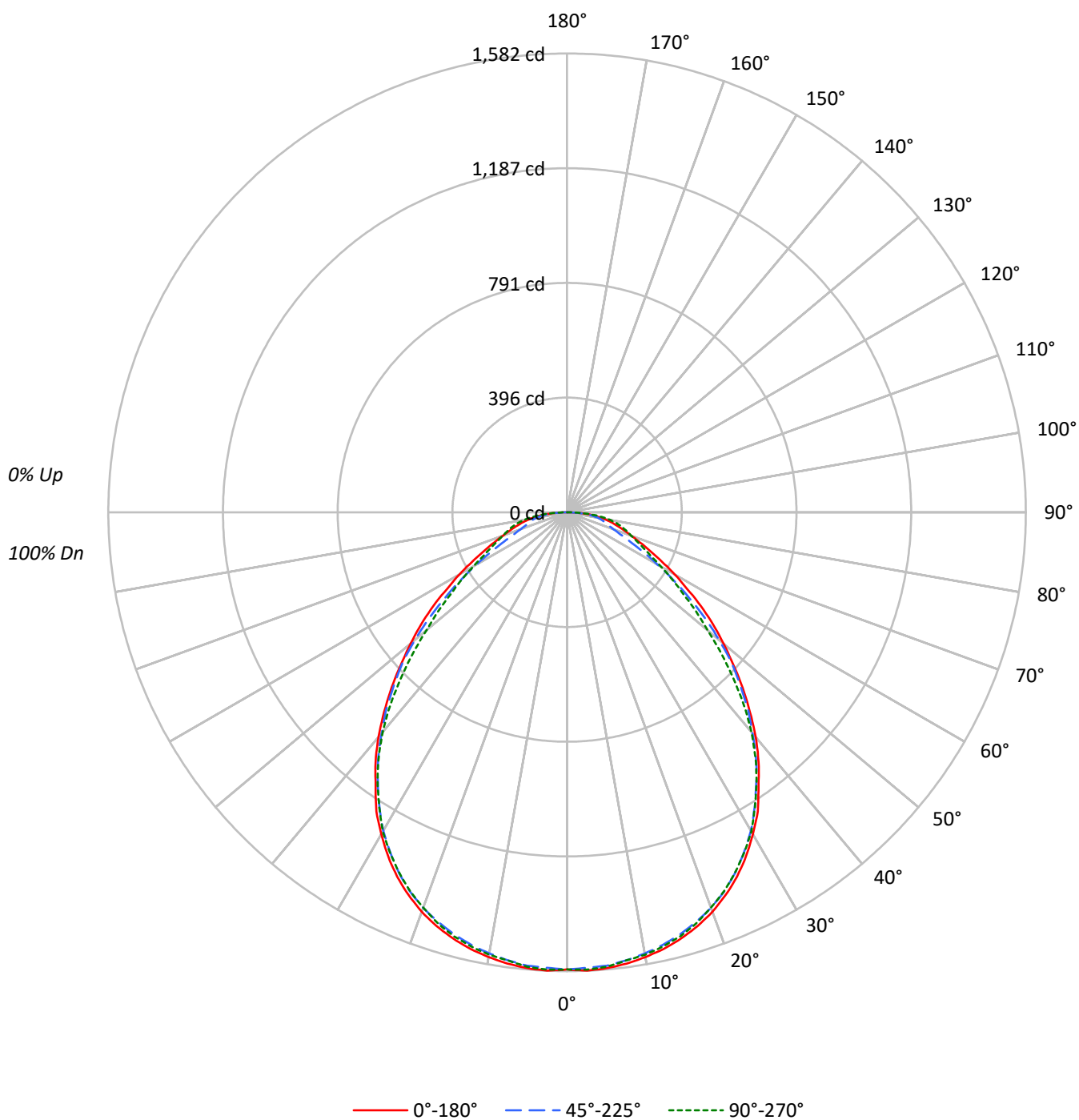
Input Watts (W): 34.617
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	105	101	98	107	103	99	96		99	96	93		95	93	90		91	89	88
2	101	93	87	82	98	91	86	81		88	83	79		85	81	77		82	78	75
3	93	83	75	69	90	81	74	69		79	73	68		76	71	67		73	69	65
4	86	74	66	60	83	73	65	60		71	64	59		68	63	58		66	61	57
5	79	67	59	53	77	66	58	52		64	57	52		62	56	51		60	55	51
6	73	61	53	46	72	60	52	46		58	51	46		57	50	45		55	49	45
7	68	56	47	42	67	55	47	41		53	46	41		52	46	41		51	45	41
8	64	51	43	37	62	50	43	37		49	42	37		48	41	37		47	41	37
9	60	47	39	34	58	46	39	34		45	38	34		44	38	33		43	38	33
10	56	44	36	31	55	43	36	31		42	35	31		41	35	31		40	35	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2414	2414	2414
5°	2426	2412	2418
10°	2421	2402	2409
15°	2412	2388	2398
20°	2389	2365	2364
25°	2343	2318	2316
30°	2265	2242	2247
35°	2152	2127	2130
40°	2023	1988	1976
45°	1854	1829	1757
50°	1676	1631	1508
55°	1505	1370	1300
60°	1318	1103	1143
65°	1150	867	1052
70°	1052	757	1052
75°	1052	805	1159
80°	1142	948	1322
85°	1253	1070	1418



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.3	4.2
10°-20°	425.9	12.0
20°-30°	631.6	17.8
30°-40°	712.5	20.1
40°-50°	645.3	18.2
50°-60°	465.6	13.1
60°-70°	278.0	7.8
70°-80°	171.8	4.8
80°-90°	72.4	2.0
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°	1206.8	34.0
0°-40°	1919.3	54.0
0°-60°	3030.2	85.3
0°-90°	3552.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3552.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1576	1576	1576	1576	1576	
5°	1578	1576	1569	1567	1573	150
15°	1521	1512	1506	1506	1512	429
25°	1386	1378	1372	1366	1370	637
35°	1151	1149	1138	1138	1139	720
45°	856	851	845	824	811	660
55°	564	546	513	488	487	503
65°	317	279	239	272	290	319
75°	178	154	136	170	196	190
85°	71	63	61	80	81	75
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1576.2	1576.2	1576.2	1576.2	1576.2
2.5°	1581.6	1577.3	1571.7	1575.0	1577.8
5°	1577.8	1575.6	1569.0	1567.3	1572.8
7.5°	1569.5	1564.1	1558.0	1560.8	1558.6
10°	1556.9	1552.0	1544.3	1544.9	1548.7
12.5°	1541.6	1535.5	1527.3	1529.5	1532.8
15°	1521.2	1511.9	1505.9	1506.5	1512.5
17.5°	1495.5	1488.4	1480.6	1482.3	1485.0
20°	1465.8	1462.0	1451.0	1447.7	1450.4
22.5°	1428.5	1421.4	1415.3	1413.7	1414.2
25°	1386.3	1378.5	1371.5	1366.5	1370.4
27.5°	1336.9	1330.2	1321.0	1319.3	1322.6
30°	1280.9	1275.9	1267.7	1265.5	1270.5
32.5°	1223.8	1215.6	1204.0	1204.0	1205.1
35°	1150.8	1149.2	1137.6	1138.2	1139.3
37.5°	1084.9	1077.3	1070.7	1064.1	1067.4
40°	1012.0	1003.2	994.4	990.0	988.4
42.5°	933.5	926.9	923.1	907.1	903.3
45°	856.1	850.6	844.6	823.7	811.2
47.5°	777.1	776.0	771.0	734.3	721.6
50°	703.5	701.9	684.3	645.4	632.7
52.5°	633.8	622.9	599.8	561.4	559.2
55°	563.6	546.0	513.1	487.9	486.8
57.5°	489.5	468.7	435.2	421.5	428.6
60°	430.3	398.4	360.0	361.7	373.2
62.5°	368.8	333.1	295.3	311.7	325.5
65°	317.2	279.3	239.3	271.7	290.3
67.5°	272.2	237.1	198.6	242.0	260.1
70°	234.9	206.4	169.1	214.5	234.9
72.5°	205.3	178.9	149.9	192.6	216.2
75°	177.8	154.2	136.1	169.6	195.9
77.5°	154.2	131.2	122.9	149.9	175.6
80°	129.5	108.6	107.5	130.6	149.9
82.5°	101.0	86.7	86.7	109.2	120.7
85°	71.3	62.6	60.9	79.6	80.7
87.5°	36.8	35.1	31.8	41.7	41.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)