

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: P219191

Luminaire Tested: **24GR-LD5-38-A125-UNV-L950-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P219191
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-LD5-38-A125-UNV-L950-CD1-U
Description: METALUX GR 2X4 LED TROFFER WITH A125 LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3597.4 lumens
Efficiency: N/A
Efficacy: 117.5 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

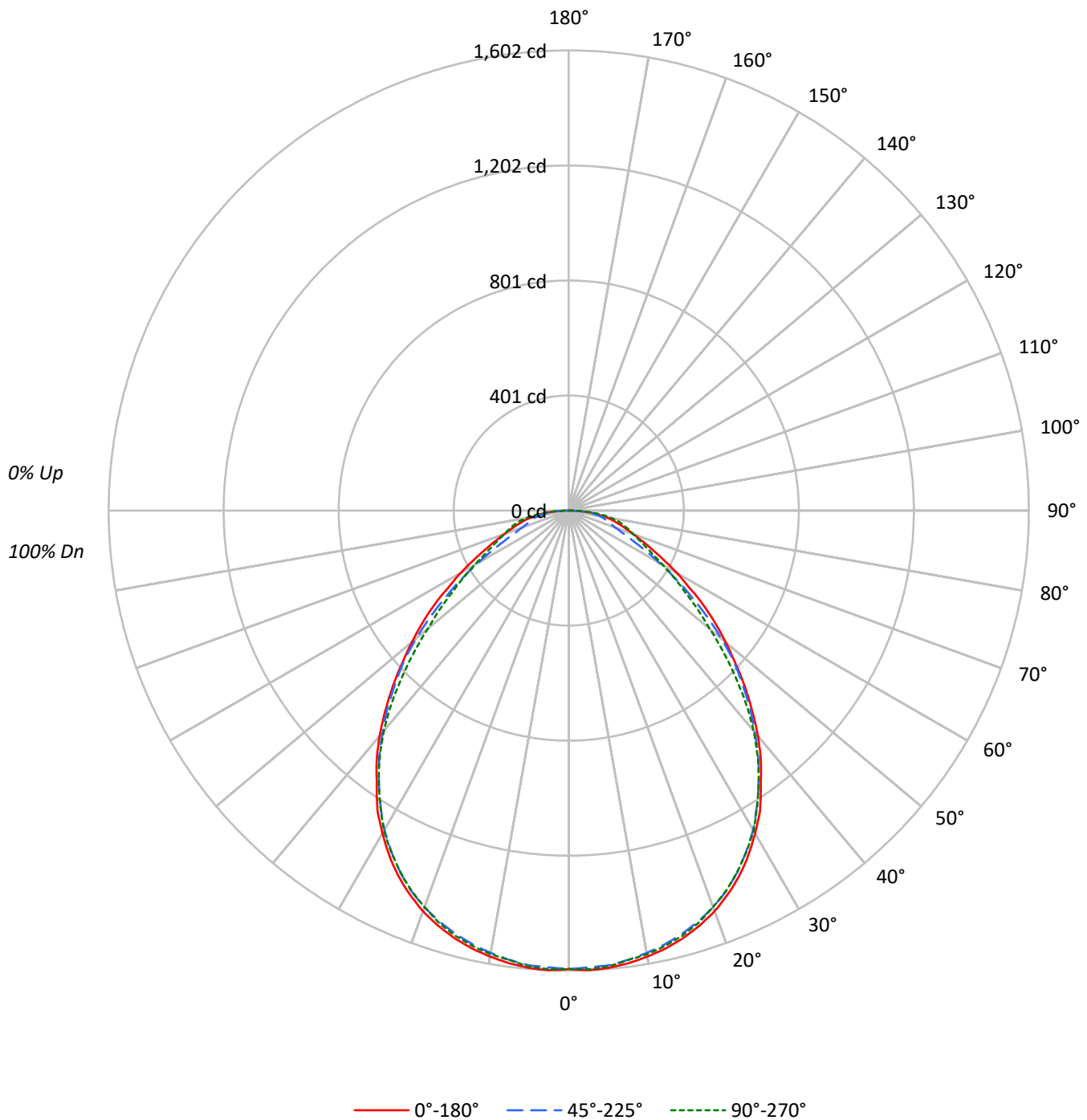
Input Watts (W): 30.624
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
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°	2445	2445	2445
5°	2457	2443	2449
10°	2452	2432	2439
15°	2443	2418	2429
20°	2419	2395	2394
25°	2373	2347	2345
30°	2294	2270	2275
35°	2179	2154	2157
40°	2049	2013	2001
45°	1878	1853	1779
50°	1697	1652	1527
55°	1524	1387	1316
60°	1335	1117	1158
65°	1164	878	1065
70°	1065	767	1065
75°	1066	816	1174
80°	1156	961	1338
85°	1271	1084	1436



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.1	4.2
10°-20°	431.3	12.0
20°-30°	639.6	17.8
30°-40°	721.5	20.1
40°-50°	653.5	18.2
50°-60°	471.5	13.1
60°-70°	281.5	7.8
70°-80°	174.0	4.8
80°-90°	73.3	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°	1222.1	34.0
0°-40°	1943.6	54.0
0°-60°	3068.6	85.3
0°-90°	3597.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3597.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1596	1596	1596	1596	1596	
5°	1598	1596	1589	1587	1593	152
15°	1540	1531	1525	1526	1532	434
25°	1404	1396	1389	1384	1388	645
35°	1165	1164	1152	1153	1154	729
45°	867	861	855	834	821	668
55°	571	553	520	494	493	510
65°	321	283	242	275	294	323
75°	180	156	138	172	198	192
85°	72	63	62	81	82	75
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1596.1	1596.1	1596.1	1596.1	1596.1
2.5°	1601.7	1597.2	1591.7	1595.0	1597.8
5°	1597.8	1595.6	1588.9	1587.2	1592.8
7.5°	1589.4	1583.9	1577.8	1580.6	1578.3
10°	1576.7	1571.7	1563.9	1564.5	1568.3
12.5°	1561.1	1555.0	1546.6	1548.9	1552.2
15°	1540.5	1531.1	1525.0	1525.5	1531.6
17.5°	1514.4	1507.2	1499.4	1501.0	1503.9
20°	1484.4	1480.5	1469.4	1466.1	1468.8
22.5°	1446.6	1439.4	1433.2	1431.6	1432.2
25°	1403.9	1396.0	1388.8	1383.8	1387.8
27.5°	1353.8	1347.2	1337.7	1336.1	1339.3
30°	1297.1	1292.1	1283.8	1281.6	1286.6
32.5°	1239.3	1231.0	1219.3	1219.3	1220.4
35°	1165.4	1163.7	1152.1	1152.6	1153.7
37.5°	1098.7	1090.9	1084.3	1077.6	1080.9
40°	1024.8	1015.9	1007.0	1002.5	1000.9
42.5°	945.3	938.7	934.8	918.6	914.7
45°	867.0	861.4	855.3	834.2	821.4
47.5°	787.0	785.9	780.9	743.6	730.8
50°	712.4	710.8	693.1	653.6	640.8
52.5°	641.9	630.8	607.4	568.6	566.3
55°	570.8	553.0	519.6	494.0	492.9
57.5°	495.8	474.7	440.7	426.8	434.1
60°	435.7	403.5	364.5	366.3	377.9
62.5°	373.5	337.3	299.0	315.7	329.6
65°	321.2	282.9	242.3	275.1	294.0
67.5°	275.6	240.1	201.2	245.1	263.4
70°	237.9	208.9	171.2	217.3	237.9
72.5°	207.8	181.2	151.7	195.1	218.9
75°	180.1	156.2	137.9	171.7	198.4
77.5°	156.2	132.9	124.5	151.7	177.8
80°	131.1	110.0	108.9	132.3	151.7
82.5°	102.3	87.8	87.8	110.6	122.3
85°	72.3	63.3	61.7	80.6	81.7
87.5°	37.2	35.6	32.2	42.2	42.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)