

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: P219147

Luminaire Tested: **24GR-LD5-42-A125-UNV-L930-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P219147
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-A125-UNV-L930-CD1-U
Description: METALUX GR 2X4 LED TROFFER WITH A125 LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3467.9 lumens
Efficiency: N/A
Efficacy: 100.2 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

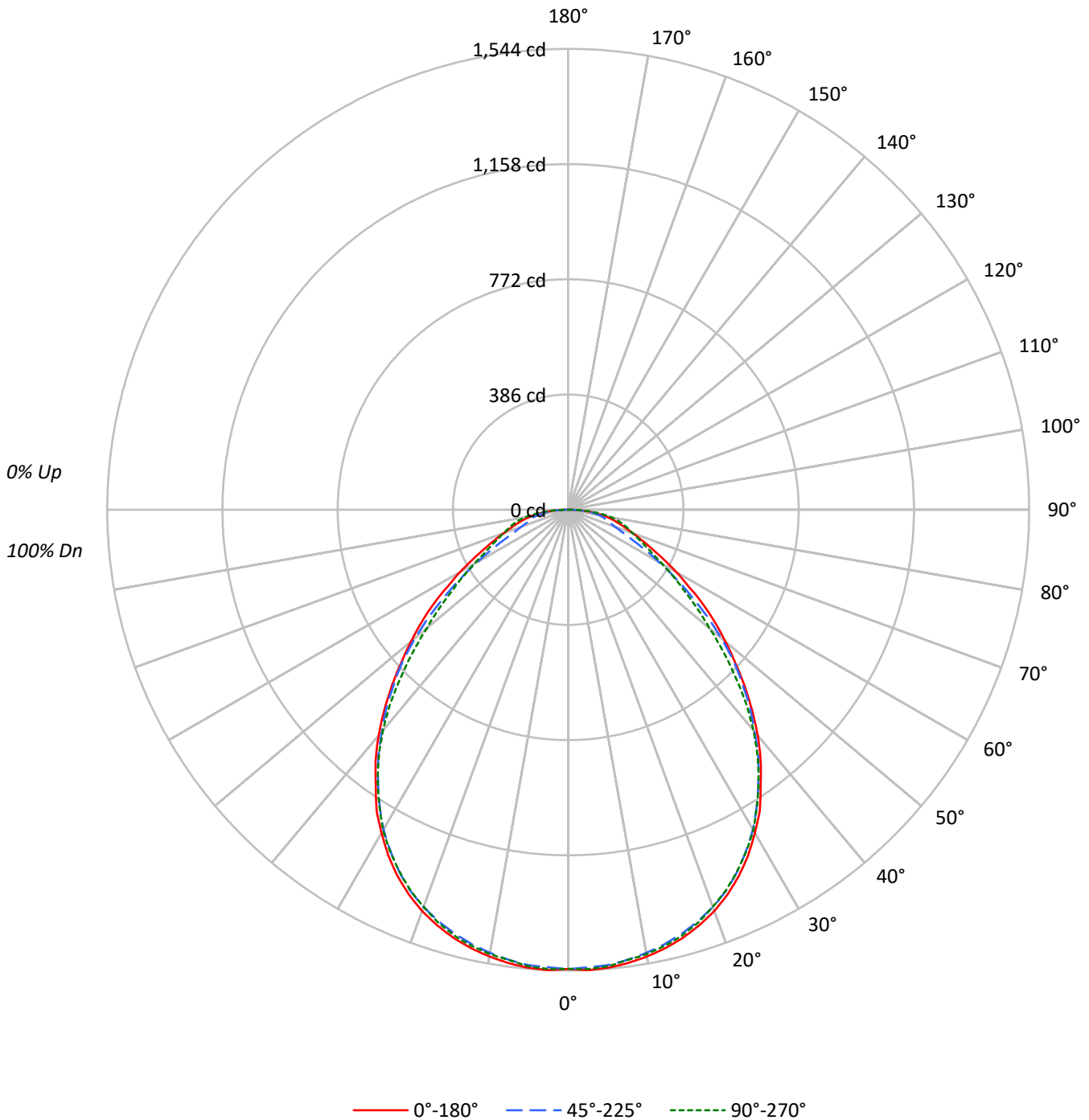
Input Watts (W): 34.617
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	110	105	101	98	107	103	99	96	99	96	93	95	93	90	91	89	88					86				
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75					73				
3	93	83	75	69	90	81	74	69	79	73	68	76	71	67	73	69	65					63				
4	86	74	66	60	83	73	65	60	71	64	59	68	63	58	66	61	57					55				
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51					49				
6	73	61	53	46	72	60	52	46	58	51	46	57	50	45	55	49	45					43				
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41					39				
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37					35				
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	38	33					32				
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	30					29				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2357	2357	2357
5°	2368	2355	2361
10°	2364	2345	2351
15°	2355	2331	2341
20°	2332	2309	2308
25°	2287	2263	2261
30°	2211	2189	2193
35°	2101	2077	2080
40°	1975	1941	1929
45°	1810	1786	1715
50°	1636	1592	1472
55°	1469	1338	1269
60°	1287	1077	1116
65°	1122	847	1027
70°	1027	739	1027
75°	1027	786	1131
80°	1115	926	1290
85°	1223	1044	1383



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.7	4.2
10°-20°	415.8	12.0
20°-30°	616.6	17.8
30°-40°	695.6	20.1
40°-50°	630.0	18.2
50°-60°	454.5	13.1
60°-70°	271.4	7.8
70°-80°	167.7	4.8
80°-90°	70.7	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°	1178.1	34.0
0°-40°	1873.7	54.0
0°-60°	2958.1	85.3
0°-90°	3467.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3467.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1539	1539	1539	1539	1539	
5°	1540	1538	1532	1530	1535	146
15°	1485	1476	1470	1471	1476	419
25°	1353	1346	1339	1334	1338	622
35°	1124	1122	1111	1111	1112	703
45°	836	830	824	804	792	644
55°	550	533	501	476	475	491
65°	310	273	234	265	283	312
75°	174	151	133	166	191	185
85°	70	61	59	78	79	73
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1538.6	1538.6	1538.6	1538.6	1538.6
2.5°	1544.1	1539.7	1534.4	1537.6	1540.3
5°	1540.3	1538.2	1531.7	1530.1	1535.4
7.5°	1532.3	1526.8	1521.0	1523.6	1521.5
10°	1520.0	1515.1	1507.6	1508.1	1511.9
12.5°	1504.9	1499.0	1491.0	1493.1	1496.3
15°	1485.1	1476.0	1470.1	1470.6	1476.5
17.5°	1459.9	1453.0	1445.4	1447.1	1449.8
20°	1431.0	1427.2	1416.6	1413.3	1416.0
22.5°	1394.6	1387.6	1381.7	1380.1	1380.6
25°	1353.3	1345.8	1338.8	1334.0	1337.7
27.5°	1305.1	1298.6	1289.5	1288.0	1291.2
30°	1250.4	1245.6	1237.5	1235.4	1240.2
32.5°	1194.7	1186.7	1175.4	1175.4	1176.5
35°	1123.5	1121.8	1110.6	1111.1	1112.2
37.5°	1059.2	1051.6	1045.3	1038.8	1042.1
40°	987.9	979.3	970.8	966.5	964.9
42.5°	911.3	904.9	901.1	885.6	881.8
45°	835.7	830.4	824.5	804.2	791.9
47.5°	758.6	757.5	752.8	716.8	704.5
50°	686.8	685.2	668.1	630.0	617.7
52.5°	618.8	608.1	585.6	548.1	546.0
55°	550.2	533.1	500.9	476.3	475.2
57.5°	477.9	457.6	424.8	411.5	418.4
60°	420.0	388.9	351.5	353.1	364.3
62.5°	360.1	325.2	288.2	304.3	317.7
65°	309.6	272.7	233.6	265.2	283.4
67.5°	265.8	231.4	193.9	236.2	254.0
70°	229.3	201.5	165.0	209.5	229.3
72.5°	200.4	174.7	146.3	188.0	211.1
75°	173.6	150.6	132.8	165.6	191.2
77.5°	150.6	128.1	120.0	146.3	171.5
80°	126.4	106.1	105.0	127.5	146.3
82.5°	98.6	84.6	84.6	106.6	117.8
85°	69.6	61.1	59.4	77.7	78.7
87.5°	35.9	34.3	31.1	40.8	40.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)