

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: P219102

Luminaire Tested: **24GR-LD5-42-A-UNV-L935-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P219102
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-A-UNV-L935-CD1-U
Description: METALUX GR 2X4 LED TROFFER WITH A LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3692.7 lumens
Efficiency: N/A
Efficacy: 106.7 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

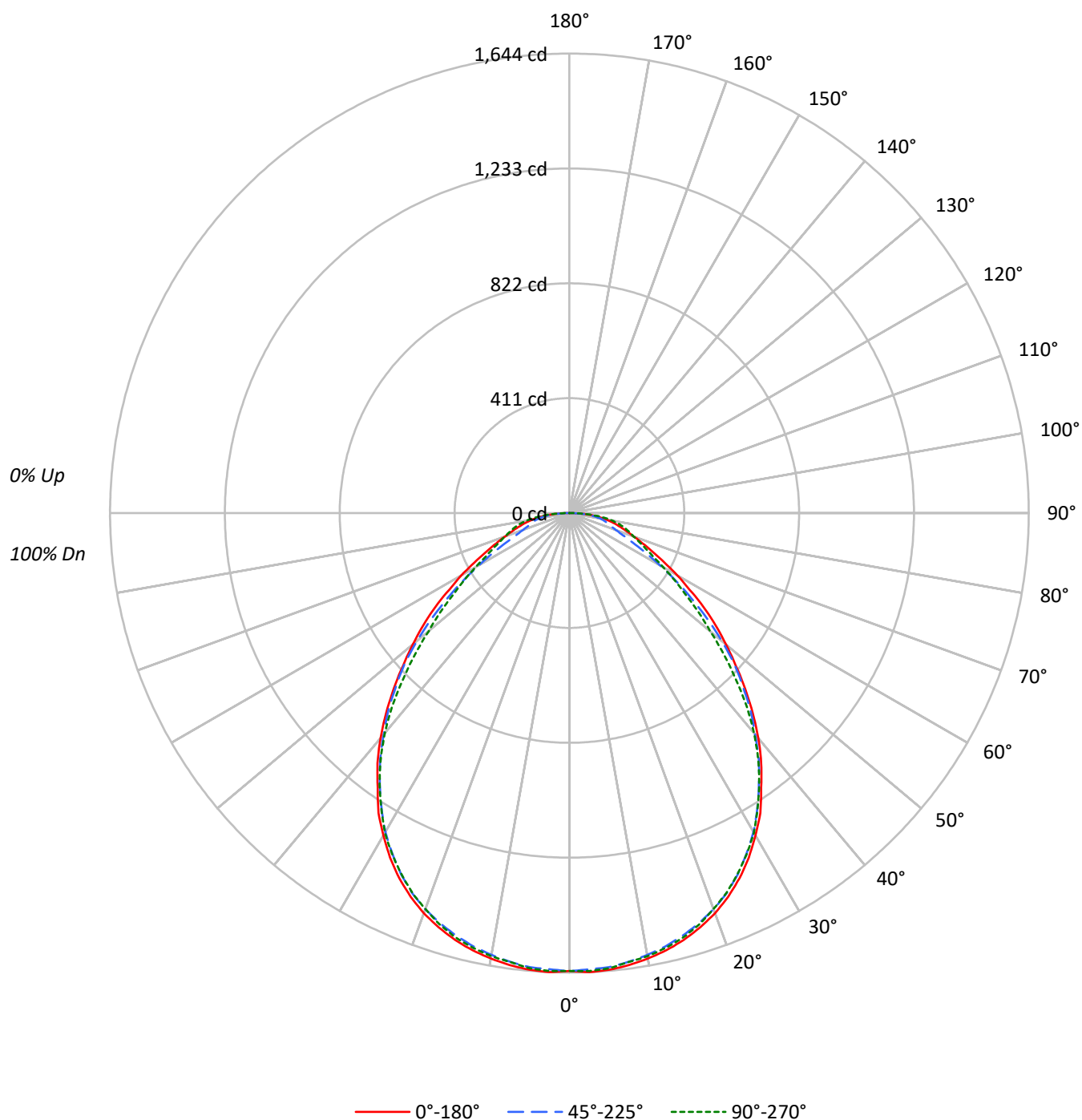
Input Watts (W): 34.617
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					10
RW	70	50	30	10	70	50	30	10	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	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°	2509	2509	2509
5°	2522	2508	2514
10°	2517	2497	2504
15°	2507	2482	2493
20°	2484	2458	2457
25°	2435	2409	2407
30°	2355	2331	2336
35°	2237	2211	2214
40°	2103	2067	2054
45°	1928	1902	1826
50°	1743	1695	1567
55°	1565	1424	1351
60°	1370	1147	1188
65°	1195	901	1094
70°	1094	787	1094
75°	1094	837	1205
80°	1187	986	1373
85°	1302	1112	1474



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.2	4.2
10°-20°	442.8	12.0
20°-30°	656.5	17.8
30°-40°	740.7	20.1
40°-50°	670.8	18.2
50°-60°	484.0	13.1
60°-70°	289.0	7.8
70°-80°	178.6	4.8
80°-90°	75.2	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°	1254.5	34.0
0°-40°	1995.1	54.0
0°-60°	3149.9	85.3
0°-90°	3692.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3692.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1638	1638	1638	1638	1638	
5°	1640	1638	1631	1629	1635	156
15°	1581	1572	1565	1566	1572	446
25°	1441	1433	1426	1420	1424	662
35°	1196	1195	1183	1183	1184	749
45°	890	884	878	856	843	686
55°	586	568	533	507	506	523
65°	330	290	249	282	302	332
75°	185	160	141	176	204	197
85°	74	65	63	83	84	77
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1638.4	1638.4	1638.4	1638.4	1638.4
2.5°	1644.1	1639.6	1633.9	1637.3	1640.1
5°	1640.1	1637.9	1631.0	1629.3	1635.0
7.5°	1631.6	1625.9	1619.6	1622.4	1620.2
10°	1618.4	1613.3	1605.3	1605.9	1609.9
12.5°	1602.4	1596.2	1587.6	1589.9	1593.3
15°	1581.3	1571.6	1565.4	1566.0	1572.2
17.5°	1554.6	1547.1	1539.2	1540.9	1543.7
20°	1523.7	1519.7	1508.3	1504.9	1507.7
22.5°	1485.0	1477.6	1471.3	1469.6	1470.1
25°	1441.0	1433.0	1425.6	1420.5	1424.5
27.5°	1389.7	1382.9	1373.1	1371.4	1374.9
30°	1331.5	1326.3	1317.8	1315.5	1320.6
32.5°	1272.2	1263.6	1251.6	1251.6	1252.7
35°	1196.3	1194.6	1182.6	1183.2	1184.3
37.5°	1127.9	1119.9	1113.0	1106.2	1109.6
40°	1052.0	1042.9	1033.7	1029.1	1027.4
42.5°	970.4	963.6	959.6	943.0	939.0
45°	890.0	884.3	878.0	856.3	843.2
47.5°	807.8	806.6	801.6	763.3	750.2
50°	731.3	729.6	711.4	670.9	657.7
52.5°	658.9	647.5	623.6	583.6	581.3
55°	585.9	567.6	533.4	507.1	506.0
57.5°	508.9	487.2	452.4	438.1	445.6
60°	447.3	414.2	374.3	376.0	387.9
62.5°	383.3	346.3	306.9	324.0	338.3
65°	329.7	290.4	248.7	282.4	301.8
67.5°	283.0	246.4	206.6	251.6	270.4
70°	244.2	214.5	175.7	223.0	244.2
72.5°	213.4	186.0	155.7	200.3	224.7
75°	184.9	160.3	141.4	176.3	203.7
77.5°	160.3	136.3	127.8	155.7	182.6
80°	134.6	113.0	111.8	135.7	155.7
82.5°	105.0	90.1	90.1	113.6	125.5
85°	74.1	65.0	63.3	82.7	83.9
87.5°	38.2	36.6	33.1	43.4	43.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)