

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: P213331

Luminaire Tested: **14GR-LD5-40-F1-UNV-L935-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P213331
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35602)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/12/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-40-F1-UNV-L935-CD1-U
Description: METALUX GR 1X4 LED TROFFER WITH F1 LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3438.2 lumens
Efficiency: N/A
Efficacy: 88.6 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.15 / 1.23
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

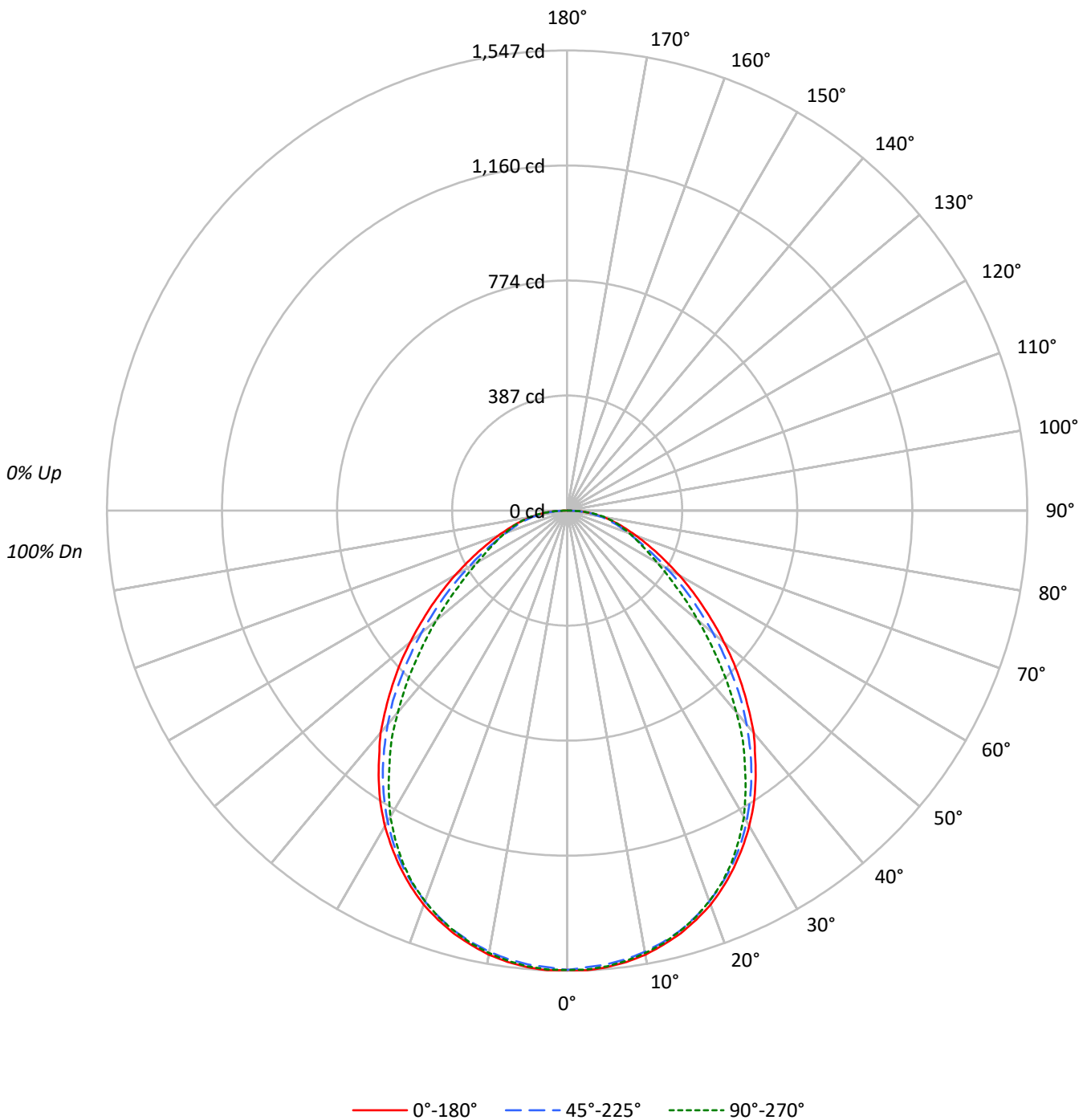
Input Watts (W): 38.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RW	70	50	30	10	70	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
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85
2	101	93	87	81	98	91	85	80	88	83	78	84	80	77	81	78	75	73
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63
4	85	74	66	59	83	73	65	59	70	64	58	68	62	58	66	61	57	55
5	79	67	58	52	77	66	58	52	64	57	51	62	55	51	60	54	50	48
6	73	61	52	46	71	60	52	46	58	51	45	56	50	45	55	49	45	43
7	68	55	47	41	66	54	47	41	53	46	41	52	45	40	50	45	40	38
8	64	51	43	37	62	50	42	37	49	42	37	48	41	37	46	41	36	34
9	60	47	39	34	58	46	39	34	45	38	33	44	38	33	43	37	33	31
10	56	43	36	31	55	43	36	31	42	35	30	41	35	30	40	34	30	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5203	5203	5203
5°	5212	5180	5202
10°	5187	5152	5168
15°	5135	5104	5107
20°	5056	5014	5010
25°	4930	4885	4858
30°	4766	4697	4625
35°	4546	4444	4285
40°	4293	4127	3891
45°	3959	3752	3450
50°	3606	3353	3013
55°	3258	2966	2626
60°	2932	2580	2347
65°	2630	2303	2201
70°	2428	2143	2182
75°	2341	2121	2298
80°	2352	2212	2492
85°	2513	2296	2606



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.9	4.2
10°-20°	413.2	12.0
20°-30°	604.8	17.6
30°-40°	672.2	19.6
40°-50°	604.3	17.6
50°-60°	451.8	13.1
60°-70°	297.5	8.7
70°-80°	180.9	5.3
80°-90°	67.7	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°	1163.8	33.9
0°-40°	1836.0	53.4
0°-60°	2892.1	84.1
0°-90°	3438.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3438.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1544	1544	1544	1544	1544	
5°	1541	1538	1531	1539	1538	146
15°	1472	1469	1463	1468	1464	415
25°	1326	1324	1314	1312	1307	610
35°	1105	1100	1080	1057	1042	690
45°	831	822	787	745	724	641
55°	555	543	505	463	447	498
65°	330	318	289	277	276	330
75°	180	172	163	171	176	191
85°	65	60	59	69	67	69
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1544.2	1544.2	1544.2	1544.2	1544.2
2.5°	1546.7	1543.4	1536.2	1545.0	1544.2
5°	1541.0	1537.8	1531.4	1539.4	1537.8
7.5°	1530.6	1526.6	1521.0	1529.0	1526.6
10°	1516.1	1512.1	1505.7	1514.5	1510.5
12.5°	1495.2	1492.9	1486.4	1492.9	1490.5
15°	1472.0	1468.8	1463.2	1468.0	1464.0
17.5°	1442.3	1439.0	1432.7	1439.0	1434.3
20°	1410.1	1406.2	1398.2	1402.9	1397.3
22.5°	1370.0	1366.0	1358.8	1361.2	1356.4
25°	1325.9	1323.5	1313.8	1311.5	1306.6
27.5°	1277.0	1273.0	1264.1	1259.3	1249.7
30°	1224.8	1220.8	1207.1	1199.1	1188.6
32.5°	1167.8	1161.4	1145.3	1131.7	1116.4
35°	1105.2	1099.6	1080.4	1057.1	1041.8
37.5°	1037.8	1034.5	1010.5	981.6	969.6
40°	976.0	963.9	938.2	903.0	884.5
42.5°	902.1	894.1	866.8	827.5	804.2
45°	830.7	821.9	787.4	744.9	723.9
47.5°	760.8	751.2	711.9	670.1	646.1
50°	687.8	679.8	639.7	593.1	574.7
52.5°	619.6	609.2	567.5	525.7	509.7
55°	554.6	542.6	504.8	463.1	447.0
57.5°	492.8	478.4	442.3	406.1	395.7
60°	435.0	419.0	382.8	356.3	348.3
62.5°	378.8	366.8	334.7	314.6	309.8
65°	329.9	317.8	288.9	276.9	276.1
67.5°	284.9	272.8	250.4	247.2	248.8
70°	246.4	236.0	217.5	219.1	221.5
72.5°	210.3	200.7	189.4	193.5	198.2
75°	179.8	171.8	162.9	170.9	176.5
77.5°	150.9	142.9	138.0	146.1	152.5
80°	121.2	115.6	114.0	122.8	128.4
82.5°	93.9	89.1	86.7	97.9	100.3
85°	65.0	60.2	59.4	69.0	67.4
87.5°	34.5	30.5	30.5	36.1	32.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)