

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: P225903

Luminaire Tested: **14GR-LD5-36-F1-UNV-L950-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P225903
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-LD5-36-F1-UNV-L950-CD1-U
Description: METALUX GR 1X4 LED TROFFER WITH F1 LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3397.0 lumens
Efficiency: N/A
Efficacy: 97.1 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

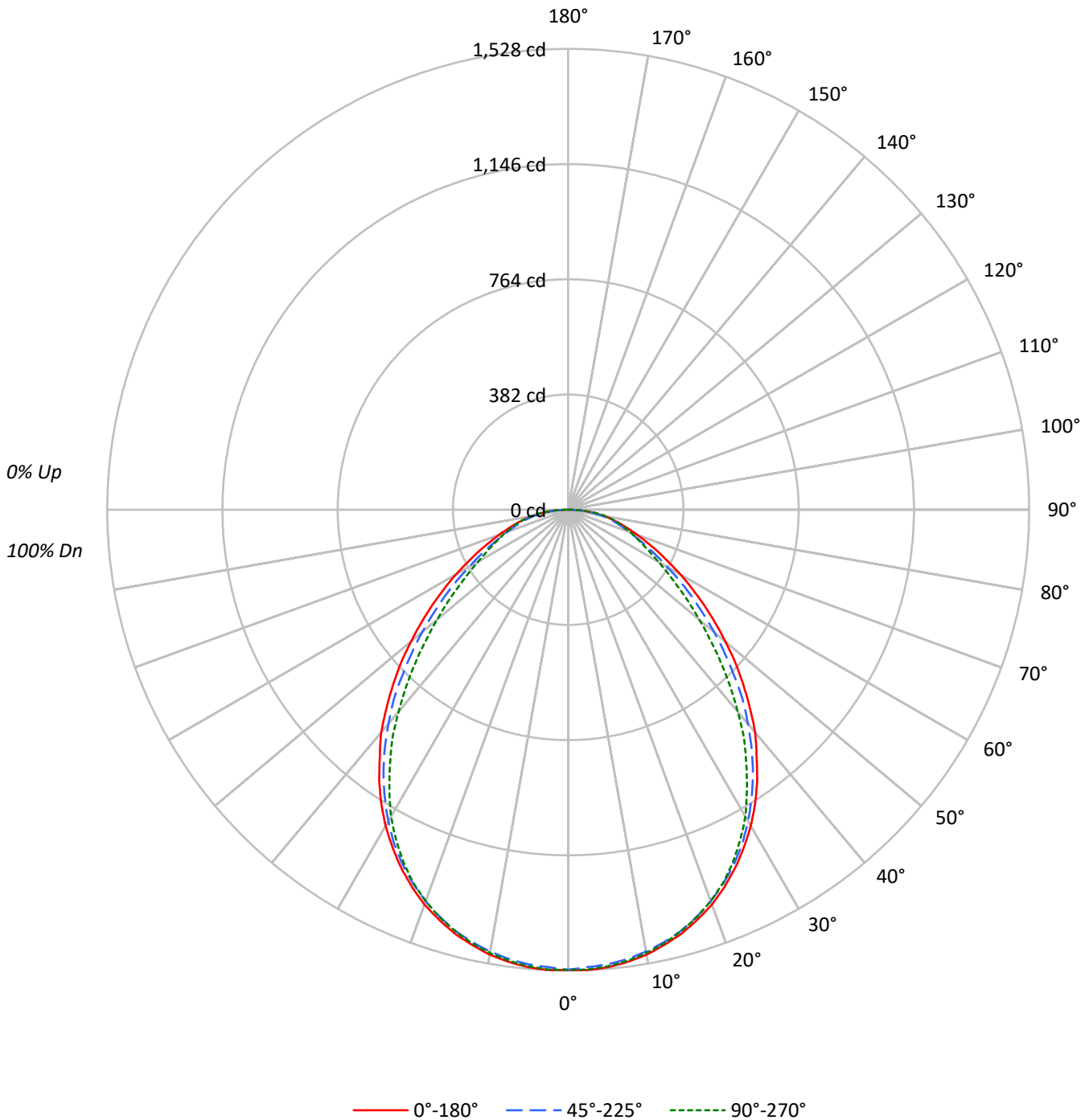
Input Watts (W): 35
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	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°	5141	5141	5141
5°	5150	5118	5139
10°	5125	5090	5106
15°	5074	5043	5046
20°	4996	4953	4951
25°	4870	4826	4800
30°	4708	4640	4569
35°	4492	4390	4234
40°	4241	4078	3844
45°	3911	3707	3409
50°	3563	3313	2976
55°	3219	2930	2595
60°	2896	2549	2320
65°	2599	2276	2175
70°	2398	2117	2157
75°	2312	2096	2271
80°	2325	2185	2462
85°	2482	2269	2575



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.1	4.2
10°-20°	408.2	12.0
20°-30°	597.5	17.6
30°-40°	664.1	19.5
40°-50°	597.0	17.6
50°-60°	446.4	13.1
60°-70°	294.0	8.7
70°-80°	178.7	5.3
80°-90°	66.9	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°	1149.9	33.9
0°-40°	1814.0	53.4
0°-60°	2857.4	84.1
0°-90°	3397.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3397.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1526	1526	1526	1526	1526	
5°	1522	1519	1513	1521	1519	145
15°	1454	1451	1446	1450	1446	410
25°	1310	1308	1298	1296	1291	602
35°	1092	1086	1067	1044	1029	681
45°	821	812	778	736	715	633
55°	548	536	499	458	442	492
65°	326	314	286	274	273	326
75°	178	170	161	169	174	189
85°	64	60	59	68	67	68
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1525.7	1525.7	1525.7	1525.7	1525.7
2.5°	1528.1	1524.9	1517.8	1526.5	1525.7
5°	1522.5	1519.3	1513.1	1521.0	1519.3
7.5°	1512.2	1508.2	1502.7	1510.6	1508.2
10°	1498.0	1493.9	1487.7	1496.4	1492.4
12.5°	1477.3	1474.9	1468.6	1474.9	1472.6
15°	1454.4	1451.2	1445.6	1450.4	1446.4
17.5°	1425.0	1421.8	1415.5	1421.8	1417.1
20°	1393.3	1389.3	1381.4	1386.1	1380.6
22.5°	1353.6	1349.7	1342.5	1344.9	1340.2
25°	1310.0	1307.7	1298.1	1295.7	1291.0
27.5°	1261.6	1257.7	1249.0	1244.2	1234.7
30°	1210.1	1206.1	1192.6	1184.7	1174.4
32.5°	1153.8	1147.4	1131.6	1118.1	1103.0
35°	1091.9	1086.4	1067.3	1044.4	1029.3
37.5°	1025.3	1022.2	998.4	969.8	958.0
40°	964.2	952.4	927.0	892.1	873.9
42.5°	891.3	883.4	856.4	817.5	794.6
45°	820.7	812.0	778.0	735.9	715.3
47.5°	751.8	742.2	703.3	662.1	638.4
50°	679.6	671.7	632.0	586.0	567.7
52.5°	612.2	601.9	560.7	519.4	503.5
55°	547.9	536.1	498.8	457.5	441.7
57.5°	486.8	472.7	437.0	401.2	390.9
60°	429.8	414.0	378.3	352.1	344.2
62.5°	374.3	362.4	330.7	310.9	306.1
65°	326.0	314.0	285.5	273.5	272.8
67.5°	281.6	269.6	247.4	244.2	245.8
70°	243.4	233.1	214.9	216.5	218.9
72.5°	207.8	198.3	187.2	191.1	195.8
75°	177.6	169.7	161.0	168.9	174.4
77.5°	149.1	141.1	136.4	144.3	150.7
80°	119.8	114.2	112.6	121.3	126.9
82.5°	92.8	88.0	85.6	96.7	99.1
85°	64.2	59.5	58.7	68.2	66.6
87.5°	34.1	30.1	30.1	35.7	31.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)