

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: P225890

Luminaire Tested: **14GR-LD5-36-F1-UNV-L935-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P225890
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-L935-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: 3120.3 lumens
Efficiency: N/A
Efficacy: 89.2 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

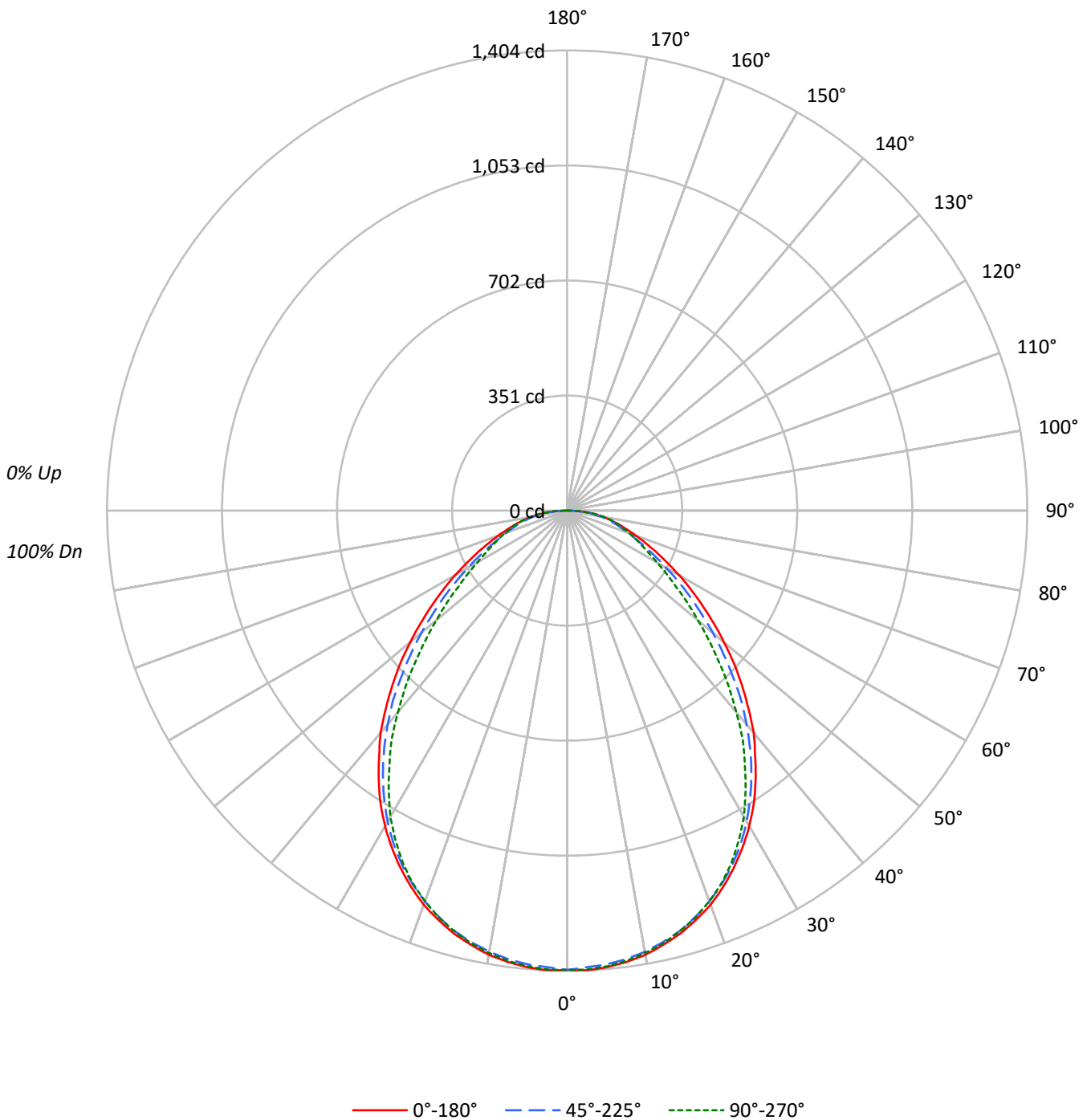
Input Watts (W): 35
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4722	4722	4722
5°	4730	4701	4721
10°	4708	4676	4691
15°	4660	4632	4635
20°	4589	4550	4547
25°	4474	4433	4409
30°	4325	4262	4197
35°	4126	4033	3889
40°	3896	3745	3531
45°	3593	3405	3131
50°	3272	3044	2734
55°	2957	2692	2383
60°	2661	2342	2130
65°	2387	2091	1998
70°	2203	1945	1980
75°	2125	1926	2086
80°	2135	2006	2261
85°	2281	2084	2366



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.4	4.2
10°-20°	375.0	12.0
20°-30°	548.9	17.6
30°-40°	610.0	19.6
40°-50°	548.4	17.6
50°-60°	410.1	13.1
60°-70°	270.0	8.7
70°-80°	164.2	5.3
80°-90°	61.4	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°	1056.2	33.9
0°-40°	1666.3	53.4
0°-60°	2624.7	84.1
0°-90°	3120.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3120.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1402	1402	1402	1402	1402	
5°	1398	1396	1390	1397	1396	133
15°	1336	1333	1328	1332	1329	376
25°	1203	1201	1192	1190	1186	553
35°	1003	998	980	959	946	626
45°	754	746	715	676	657	582
55°	503	492	458	420	406	452
65°	299	288	262	251	251	299
75°	163	156	148	155	160	174
85°	59	55	54	63	61	63
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1401.5	1401.5	1401.5	1401.5	1401.5
2.5°	1403.6	1400.7	1394.2	1402.2	1401.5
5°	1398.5	1395.6	1389.8	1397.1	1395.6
7.5°	1389.1	1385.4	1380.3	1387.6	1385.4
10°	1376.0	1372.3	1366.5	1374.5	1370.9
12.5°	1357.0	1354.8	1349.0	1354.8	1352.6
15°	1335.9	1333.0	1327.9	1332.2	1328.6
17.5°	1308.9	1306.0	1300.2	1306.0	1301.7
20°	1279.8	1276.2	1268.9	1273.2	1268.1
22.5°	1243.4	1239.7	1233.2	1235.4	1231.0
25°	1203.3	1201.1	1192.4	1190.2	1185.8
27.5°	1158.9	1155.2	1147.2	1142.8	1134.2
30°	1111.5	1107.9	1095.5	1088.3	1078.7
32.5°	1059.9	1054.0	1039.5	1027.1	1013.2
35°	1003.0	997.9	980.4	959.3	945.5
37.5°	941.8	938.9	917.1	890.8	879.9
40°	885.7	874.8	851.5	819.5	802.7
42.5°	818.7	811.4	786.7	751.0	729.9
45°	753.9	745.9	714.6	675.9	657.0
47.5°	690.5	681.8	646.1	608.2	586.3
50°	624.2	616.9	580.6	538.3	521.6
52.5°	562.4	552.8	515.0	477.1	462.6
55°	503.3	492.4	458.2	420.3	405.7
57.5°	447.3	434.1	401.4	368.6	359.1
60°	394.8	380.2	347.5	323.4	316.1
62.5°	343.8	332.9	303.7	285.5	281.2
65°	299.4	288.4	262.2	251.3	250.6
67.5°	258.6	247.7	227.3	224.3	225.8
70°	223.6	214.1	197.4	198.8	201.0
72.5°	190.8	182.1	171.9	175.5	179.9
75°	163.2	155.9	147.9	155.1	160.2
77.5°	136.9	129.6	125.3	132.6	138.4
80°	110.0	104.9	103.4	111.4	116.5
82.5°	85.3	80.8	78.6	88.8	91.0
85°	59.0	54.7	53.9	62.6	61.2
87.5°	31.3	27.7	27.7	32.8	29.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)