

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: P225910

Luminaire Tested: **14GR-LD5-36-A-UNV-L930-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P225910
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33314)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/12/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-36-A-UNV-L930-CD1-U
Description: METALUX GR 1X4 LED TROFFER WITH A LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3027.9 lumens
Efficiency: N/A
Efficacy: 86.5 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.21 / 1.26
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

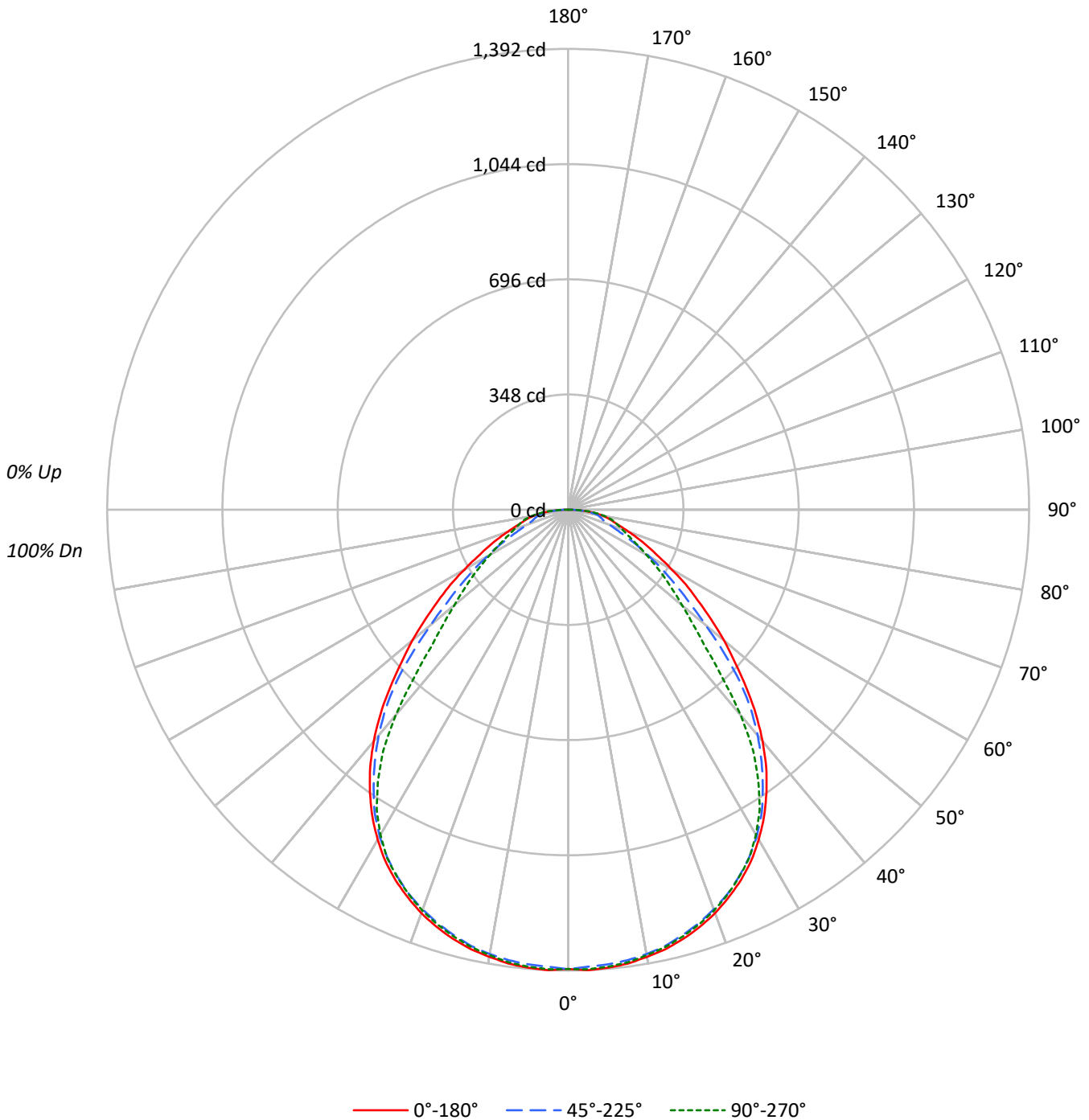
Input Watts (W): 35
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	94	88	83	99	92	86	82	88	84	80	85	81	78	82	79	76	74
3	93	84	76	71	91	82	75	70	79	74	69	77	72	68	74	70	66	64
4	86	75	67	61	84	74	67	61	72	65	60	69	64	59	67	62	58	56
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46	44
7	69	57	48	43	67	56	48	43	54	47	42	53	47	42	52	46	42	40
8	65	52	44	38	63	51	44	38	50	43	38	49	43	38	48	42	38	36
9	61	48	40	35	59	47	40	35	46	39	35	45	39	35	44	39	34	33
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	36	31	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4675	4675	4675
5°	4698	4662	4686
10°	4692	4663	4675
15°	4683	4641	4656
20°	4650	4607	4620
25°	4589	4544	4547
30°	4476	4430	4411
35°	4293	4215	4119
40°	4018	3916	3564
45°	3629	3492	2785
50°	3219	2835	2356
55°	2809	2326	2078
60°	2436	1915	1834
65°	2136	1536	1693
70°	1905	1302	1704
75°	1859	1374	1903
80°	2061	1733	2183
85°	2146	1848	2556



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.6	4.3
10°-20°	377.1	12.5
20°-30°	564.1	18.6
30°-40°	636.8	21.0
40°-50°	540.3	17.8
50°-60°	365.5	12.1
60°-70°	218.2	7.2
70°-80°	136.6	4.5
80°-90°	57.5	1.9
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°	1072.9	35.4
0°-40°	1709.7	56.5
0°-60°	2615.5	86.4
0°-90°	3027.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3027.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1388	1388	1388	1388	1388	
5°	1389	1385	1378	1388	1385	132
15°	1342	1340	1330	1340	1335	379
25°	1234	1230	1222	1228	1223	568
35°	1044	1037	1025	1016	1001	650
45°	762	764	733	628	584	587
55°	478	456	396	354	354	431
65°	268	222	193	205	212	268
75°	143	127	106	139	146	153
85°	56	53	48	62	66	60
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1387.5	1387.5	1387.5	1387.5	1387.5
2.5°	1392.4	1388.2	1381.9	1390.3	1389.6
5°	1388.9	1384.7	1378.4	1388.2	1385.4
7.5°	1382.5	1379.0	1372.7	1381.9	1379.0
10°	1371.3	1368.5	1362.9	1370.6	1366.4
12.5°	1359.4	1357.2	1350.2	1357.2	1353.1
15°	1342.4	1339.7	1330.5	1339.7	1334.7
17.5°	1321.4	1317.9	1310.2	1317.9	1313.6
20°	1296.8	1292.6	1284.8	1292.6	1288.3
22.5°	1267.2	1263.8	1256.7	1263.8	1258.1
25°	1234.2	1230.0	1222.3	1227.8	1222.9
27.5°	1196.2	1190.6	1183.6	1187.7	1185.0
30°	1150.5	1143.5	1138.5	1138.5	1133.6
32.5°	1100.6	1095.7	1087.2	1082.3	1075.9
35°	1043.6	1036.6	1024.6	1015.5	1001.4
37.5°	982.4	974.0	959.2	936.0	917.0
40°	913.5	903.0	890.3	844.6	810.2
42.5°	839.6	837.6	815.7	737.7	689.9
45°	761.6	764.4	732.8	628.0	584.4
47.5°	682.8	692.7	635.0	532.4	509.9
50°	614.0	617.4	540.8	462.1	449.4
52.5°	542.9	537.3	461.3	406.5	397.3
55°	478.2	455.7	395.9	354.4	353.7
57.5°	421.2	379.7	338.2	307.3	310.8
60°	361.5	315.1	284.1	267.3	272.2
62.5°	308.8	264.4	237.0	232.1	240.5
65°	267.9	222.2	192.7	205.3	212.4
67.5°	229.2	190.6	156.8	187.1	189.9
70°	193.4	165.3	132.2	172.3	173.0
72.5°	163.8	146.2	114.6	156.1	158.2
75°	142.8	127.3	105.5	139.3	146.2
77.5°	125.2	109.0	97.8	120.3	132.2
80°	106.2	87.9	89.3	100.6	112.5
82.5°	81.6	68.2	71.0	83.0	91.4
85°	55.5	52.7	47.8	61.9	66.1
87.5°	29.5	28.1	24.7	35.2	33.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)