

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: P225917

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

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P225917
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-L935-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: 3154.4 lumens
Efficiency: N/A
Efficacy: 90.1 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

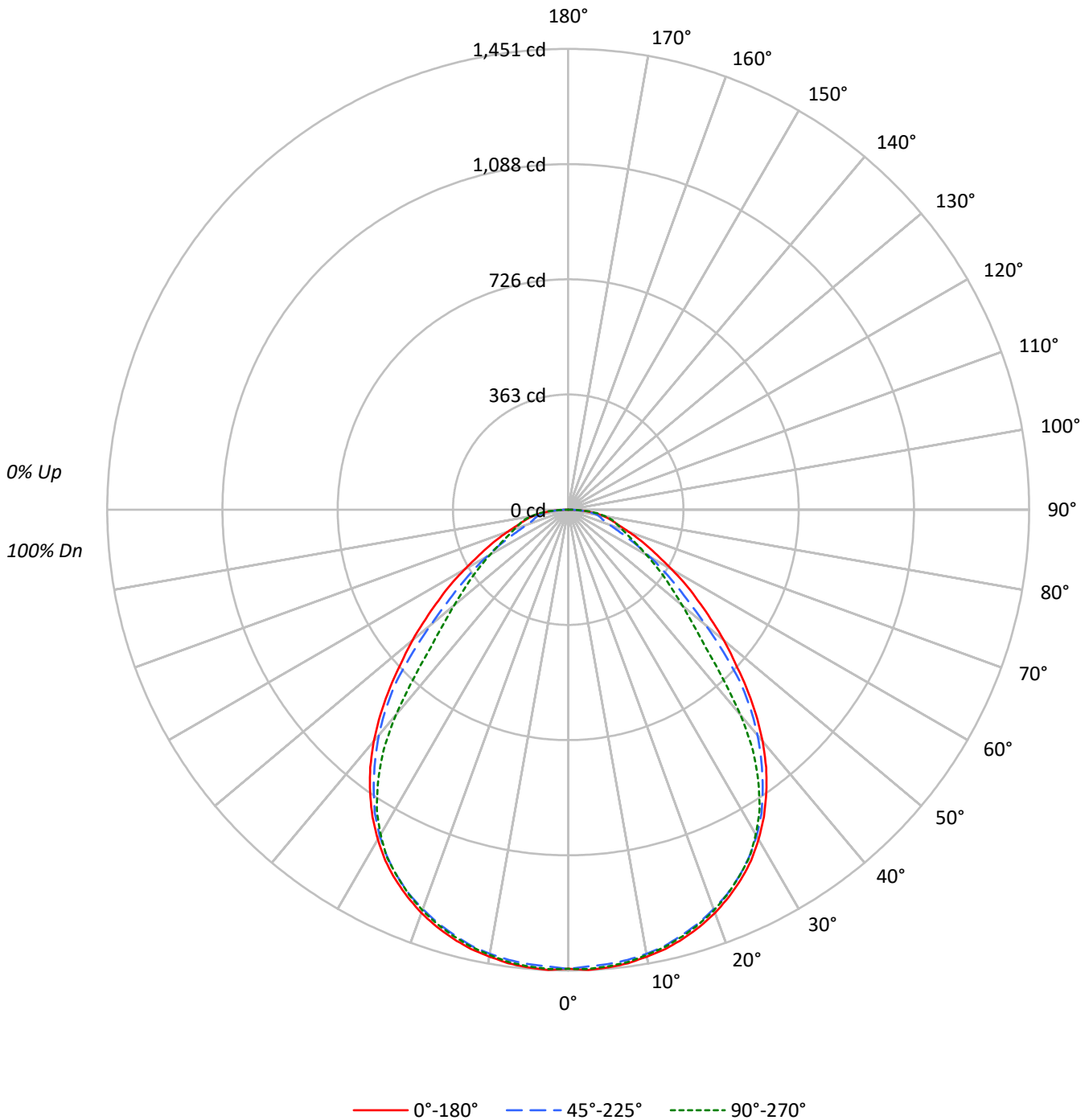
Input Watts (W): 35
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4870	4870	4870
5°	4894	4857	4882
10°	4888	4858	4871
15°	4879	4835	4851
20°	4844	4800	4813
25°	4780	4734	4737
30°	4664	4615	4595
35°	4472	4391	4292
40°	4186	4080	3712
45°	3781	3638	2901
50°	3352	2953	2454
55°	2927	2423	2165
60°	2538	1995	1911
65°	2225	1601	1764
70°	1984	1357	1775
75°	1937	1431	1984
80°	2146	1807	2274
85°	2239	1925	2660



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.1	4.3
10°-20°	392.9	12.5
20°-30°	587.7	18.6
30°-40°	663.4	21.0
40°-50°	562.8	17.8
50°-60°	380.8	12.1
60°-70°	227.3	7.2
70°-80°	142.3	4.5
80°-90°	59.9	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°	1117.7	35.4
0°-40°	1781.2	56.5
0°-60°	2724.8	86.4
0°-90°	3154.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3154.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1445	1445	1445	1445	1445	
5°	1447	1442	1436	1446	1443	138
15°	1399	1396	1386	1396	1390	394
25°	1286	1281	1273	1279	1274	591
35°	1087	1080	1067	1058	1043	677
45°	793	796	763	654	609	611
55°	498	475	412	369	368	449
65°	279	232	201	214	221	279
75°	149	133	110	145	152	160
85°	58	55	50	64	69	62
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1445.4	1445.4	1445.4	1445.4	1445.4
2.5°	1450.6	1446.2	1439.6	1448.4	1447.6
5°	1447.0	1442.5	1435.9	1446.2	1443.3
7.5°	1440.3	1436.7	1430.0	1439.6	1436.7
10°	1428.6	1425.7	1419.8	1427.9	1423.5
12.5°	1416.2	1414.0	1406.7	1414.0	1409.6
15°	1398.6	1395.6	1386.1	1395.6	1390.5
17.5°	1376.6	1372.9	1364.8	1372.9	1368.5
20°	1351.0	1346.6	1338.5	1346.6	1342.1
22.5°	1320.2	1316.5	1309.2	1316.5	1310.7
25°	1285.7	1281.4	1273.3	1279.2	1274.1
27.5°	1246.2	1240.3	1233.0	1237.4	1234.5
30°	1198.6	1191.3	1186.1	1186.1	1181.0
32.5°	1146.6	1141.5	1132.6	1127.5	1120.9
35°	1087.2	1079.9	1067.4	1057.9	1043.3
37.5°	1023.5	1014.6	999.3	975.1	955.3
40°	951.7	940.7	927.5	879.9	844.0
42.5°	874.7	872.5	849.8	768.5	718.7
45°	793.4	796.4	763.4	654.2	608.8
47.5°	711.4	721.6	661.6	554.6	531.2
50°	639.5	643.3	563.4	481.4	468.2
52.5°	565.6	559.7	480.6	423.5	414.0
55°	498.2	474.7	412.5	369.2	368.5
57.5°	438.9	395.6	352.4	320.2	323.8
60°	376.6	328.2	296.0	278.4	283.6
62.5°	321.6	275.5	246.9	241.7	250.6
65°	279.1	231.5	200.8	213.9	221.3
67.5°	238.8	198.6	163.4	194.9	197.8
70°	201.4	172.1	137.7	179.5	180.2
72.5°	170.7	152.4	119.4	162.6	164.8
75°	148.8	132.6	109.9	145.1	152.4
77.5°	130.4	113.6	101.8	125.3	137.7
80°	110.6	91.5	93.1	104.8	117.2
82.5°	85.0	71.1	74.0	86.4	95.2
85°	57.9	54.9	49.8	64.4	68.8
87.5°	30.8	29.3	25.7	36.6	34.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)