

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: P225834

Luminaire Tested: **14GR-LD5-36-A19/156-UNV-L935-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P225834
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33288)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/12/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-36-A19/156-UNV-L935-CD1-U
Description: METALUX GR 1X4 LED TROFFER WITH A19/156 LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3033.7 lumens
Efficiency: N/A
Efficacy: 86.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.23 / 1.18
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

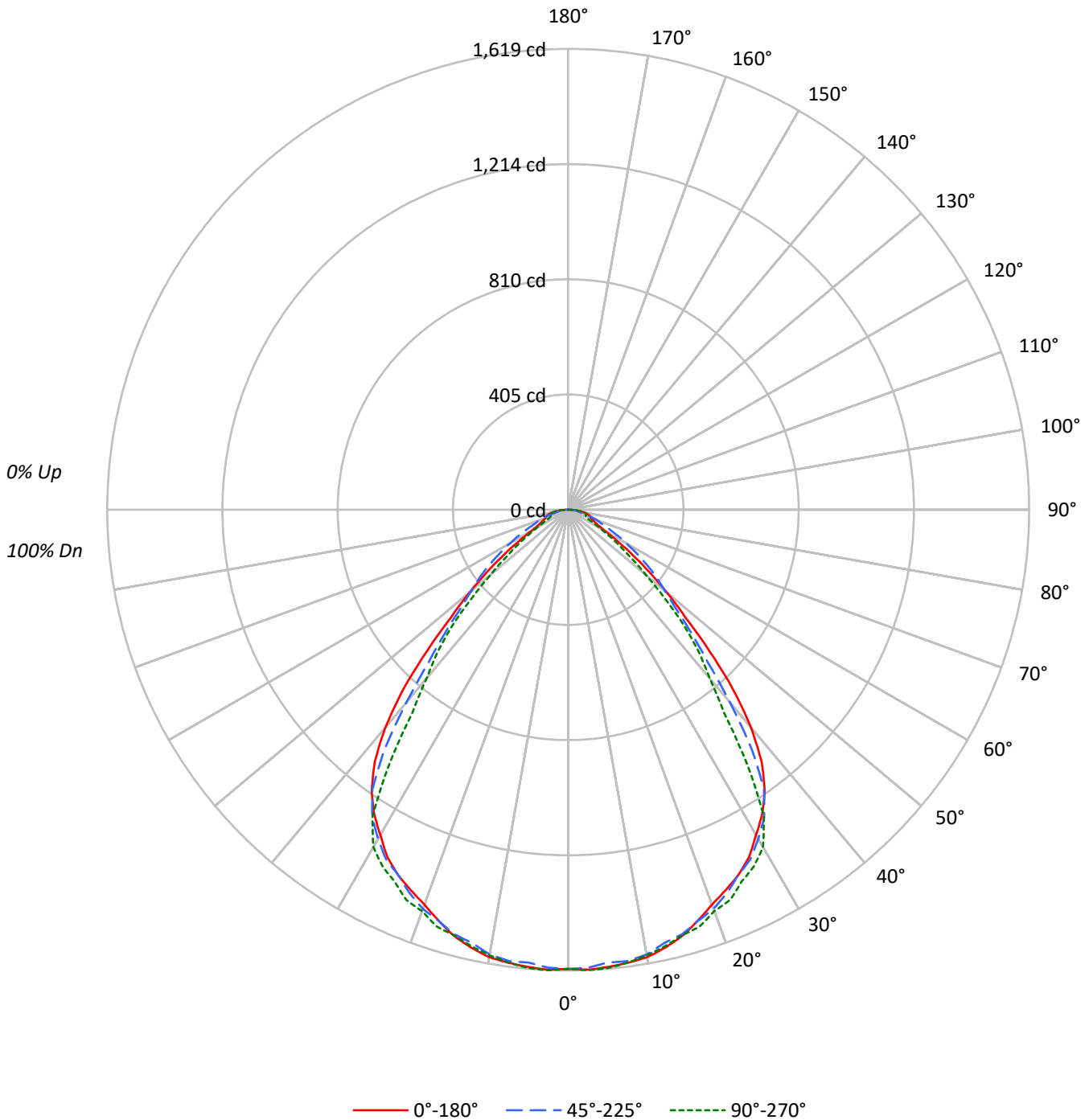
Input Watts (W): 35
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	107	104	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88					88			
2	103	96	90	86	100	94	89	85	91	87	83	88	84	81	85	82	79	77					77			
3	95	87	80	74	93	85	79	74	82	77	73	80	75	71	77	73	70	68					68			
4	89	79	71	65	87	77	70	65	75	69	64	73	68	63	71	66	63	61					61			
5	83	71	64	58	81	70	63	58	68	62	57	67	61	57	65	60	56	54					54			
6	77	65	58	52	75	64	57	52	63	56	51	61	55	51	60	55	51	49					49			
7	72	60	52	47	70	59	52	47	58	51	46	56	51	46	55	50	46	44					44			
8	67	55	48	43	66	55	47	42	53	47	42	52	46	42	51	46	42	40					40			
9	63	51	44	39	62	51	44	39	50	43	39	49	43	38	48	42	38	37					37			
10	60	48	40	36	58	47	40	36	46	40	35	45	39	35	44	39	35	34					34			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5436	5436	5436
5°	5454	5402	5466
10°	5463	5429	5439
15°	5407	5388	5400
20°	5294	5351	5381
25°	5262	5259	5360
30°	5134	5196	5323
35°	4950	4930	4530
40°	4396	3880	3397
45°	3336	2902	2747
50°	2366	2322	1864
55°	1620	1983	1281
60°	1001	1582	857
65°	824	1217	620
70°	821	1060	636
75°	986	759	850
80°	1131	701	1063
85°	1075	1237	1210



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.1	5.0
10°-20°	436.9	14.4
20°-30°	657.0	21.7
30°-40°	716.2	23.6
40°-50°	501.5	16.5
50°-60°	283.9	9.4
60°-70°	155.3	5.1
70°-80°	94.1	3.1
80°-90°	35.7	1.2
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°	1246.9	41.1
0°-40°	1963.1	64.7
0°-60°	2748.5	90.6
0°-90°	3033.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3033.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1613	1613	1613	1613	1613	
5°	1612	1610	1597	1616	1616	153
15°	1550	1546	1544	1567	1548	436
25°	1415	1418	1415	1447	1442	650
35°	1203	1198	1199	1138	1101	742
45°	700	731	609	601	576	544
55°	276	330	338	335	218	252
65°	103	170	153	193	78	106
75°	76	109	58	115	65	78
85°	28	45	32	39	31	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1613.2	1613.2	1613.2	1613.2	1613.2
2.5°	1617.4	1615.3	1610.4	1620.1	1619.4
5°	1612.4	1609.7	1597.2	1615.9	1615.9
7.5°	1605.6	1598.6	1599.3	1609.7	1604.9
10°	1596.5	1584.7	1586.8	1589.6	1589.6
12.5°	1575.6	1564.6	1559.0	1568.1	1570.8
15°	1550.0	1545.8	1544.4	1566.6	1547.9
17.5°	1513.8	1522.9	1514.5	1532.6	1535.4
20°	1476.4	1493.7	1492.3	1504.8	1500.7
22.5°	1445.8	1456.9	1456.9	1472.2	1484.7
25°	1415.2	1418.1	1414.6	1447.2	1441.7
27.5°	1375.6	1373.6	1384.7	1401.4	1412.4
30°	1319.5	1320.1	1335.4	1357.6	1368.1
32.5°	1268.0	1261.8	1280.5	1290.3	1279.2
35°	1203.4	1197.9	1198.6	1137.5	1101.3
37.5°	1115.3	1120.1	1056.2	944.4	897.2
40°	999.3	1009.0	882.0	798.6	772.2
42.5°	859.0	861.8	722.9	695.8	678.5
45°	700.0	730.6	609.0	601.4	576.4
47.5°	554.9	611.8	510.4	515.3	455.5
50°	451.4	508.3	443.0	445.1	355.6
52.5°	356.9	412.5	391.0	384.7	279.1
55°	275.7	329.9	337.5	334.7	218.0
57.5°	202.8	261.1	283.3	293.8	168.0
60°	148.6	213.2	234.7	255.6	127.1
62.5°	118.1	184.7	192.4	223.0	98.6
65°	103.4	170.2	152.7	193.0	77.8
67.5°	92.4	161.8	124.3	170.8	68.1
70°	83.3	145.9	107.6	152.7	64.6
72.5°	83.3	127.8	84.7	135.4	65.3
75°	75.7	109.1	58.3	114.6	65.3
77.5°	67.3	93.1	43.8	93.1	61.1
80°	58.3	72.9	36.1	71.5	54.8
82.5°	43.1	54.8	31.3	53.5	44.5
85°	27.8	45.1	32.0	38.9	31.3
87.5°	13.2	23.0	20.1	19.5	16.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)