

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: P225827

Luminaire Tested: **14GR-LD5-36-A19/156-UNV-L930-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P225827
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-L930-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: 2912.5 lumens
Efficiency: N/A
Efficacy: 83.2 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

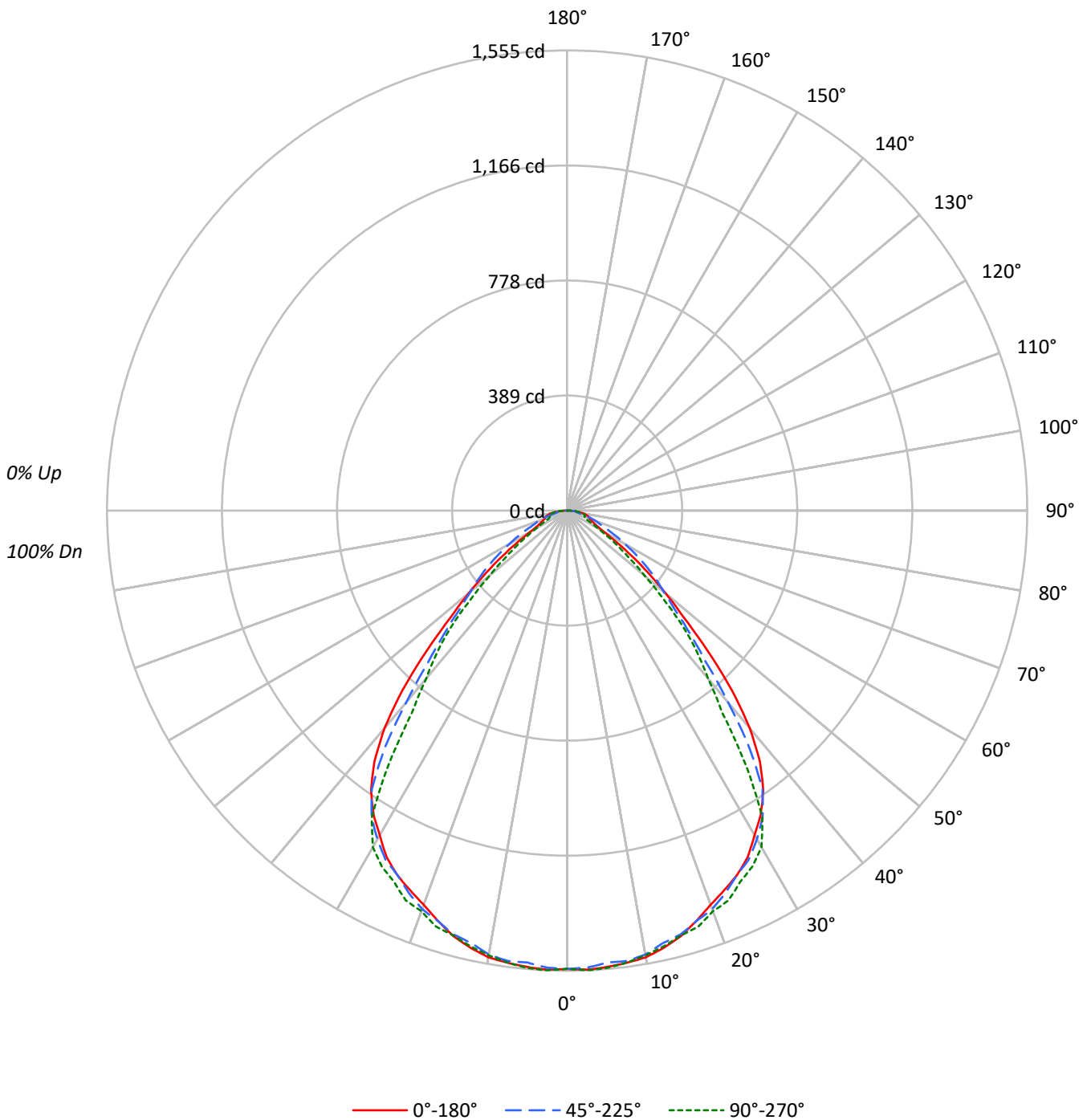
Input Watts (W): 35
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	5218	5218	5218
5°	5236	5187	5248
10°	5245	5212	5221
15°	5191	5172	5184
20°	5083	5137	5166
25°	5052	5049	5146
30°	4929	4988	5110
35°	4753	4733	4350
40°	4220	3724	3261
45°	3203	2786	2637
50°	2271	2230	1790
55°	1555	1903	1230
60°	962	1518	822
65°	793	1170	596
70°	788	1018	611
75°	946	729	816
80°	1087	673	1023
85°	1028	1183	1160



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.9	5.0
10°-20°	419.4	14.4
20°-30°	630.7	21.7
30°-40°	687.6	23.6
40°-50°	481.5	16.5
50°-60°	272.5	9.4
60°-70°	149.1	5.1
70°-80°	90.4	3.1
80°-90°	34.3	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°	1197.1	41.1
0°-40°	1884.7	64.7
0°-60°	2638.7	90.6
0°-90°	2912.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2912.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1549	1549	1549	1549	1549	
5°	1548	1545	1533	1551	1551	147
15°	1488	1484	1483	1504	1486	419
25°	1359	1361	1358	1389	1384	624
35°	1155	1150	1151	1092	1057	712
45°	672	701	585	577	553	522
55°	265	317	324	321	209	242
65°	99	163	147	185	75	102
75°	73	105	56	110	63	75
85°	27	43	31	37	30	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1548.7	1548.7	1548.7	1548.7	1548.7
2.5°	1552.8	1550.8	1546.0	1555.4	1554.8
5°	1548.0	1545.4	1533.4	1551.4	1551.4
7.5°	1541.4	1534.8	1535.4	1545.4	1540.7
10°	1532.8	1521.4	1523.4	1526.0	1526.0
12.5°	1512.8	1502.1	1496.7	1505.4	1508.1
15°	1488.1	1484.0	1482.7	1504.0	1486.0
17.5°	1453.4	1462.0	1454.1	1471.4	1474.1
20°	1417.4	1434.1	1432.7	1444.7	1440.7
22.5°	1388.1	1398.7	1398.7	1413.4	1425.4
25°	1358.7	1361.4	1358.0	1389.4	1384.0
27.5°	1320.7	1318.7	1329.4	1345.4	1356.1
30°	1266.7	1267.4	1282.0	1303.4	1313.4
32.5°	1217.4	1211.4	1229.4	1238.7	1228.1
35°	1155.4	1150.0	1150.7	1092.0	1057.4
37.5°	1070.7	1075.3	1014.0	906.7	861.4
40°	959.4	968.7	846.7	766.7	741.4
42.5°	824.7	827.3	694.0	668.1	651.4
45°	672.1	701.4	584.7	577.3	553.4
47.5°	532.7	587.4	490.0	494.7	437.3
50°	433.3	488.0	425.4	427.4	341.4
52.5°	342.7	396.0	375.3	369.3	268.0
55°	264.7	316.6	324.0	321.4	209.3
57.5°	194.6	250.7	272.0	282.0	161.4
60°	142.7	204.7	225.3	245.3	122.0
62.5°	113.4	177.4	184.7	214.0	94.7
65°	99.4	163.3	146.7	185.3	74.7
67.5°	88.6	155.4	119.4	164.0	65.3
70°	80.0	140.0	103.3	146.7	62.0
72.5°	80.0	122.7	81.3	130.0	62.7
75°	72.7	104.7	56.0	110.0	62.7
77.5°	64.7	89.3	42.0	89.3	58.7
80°	56.0	70.0	34.7	68.6	52.7
82.5°	41.3	52.7	30.0	51.4	42.7
85°	26.6	43.3	30.6	37.4	30.0
87.5°	12.7	22.0	19.3	18.7	15.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)