

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: P225833

Luminaire Tested: **14GR-LD5-32-A19/156-UNV-L935-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P225833
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-LD5-32-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: 2691.9 lumens
Efficiency: N/A
Efficacy: 90.0 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

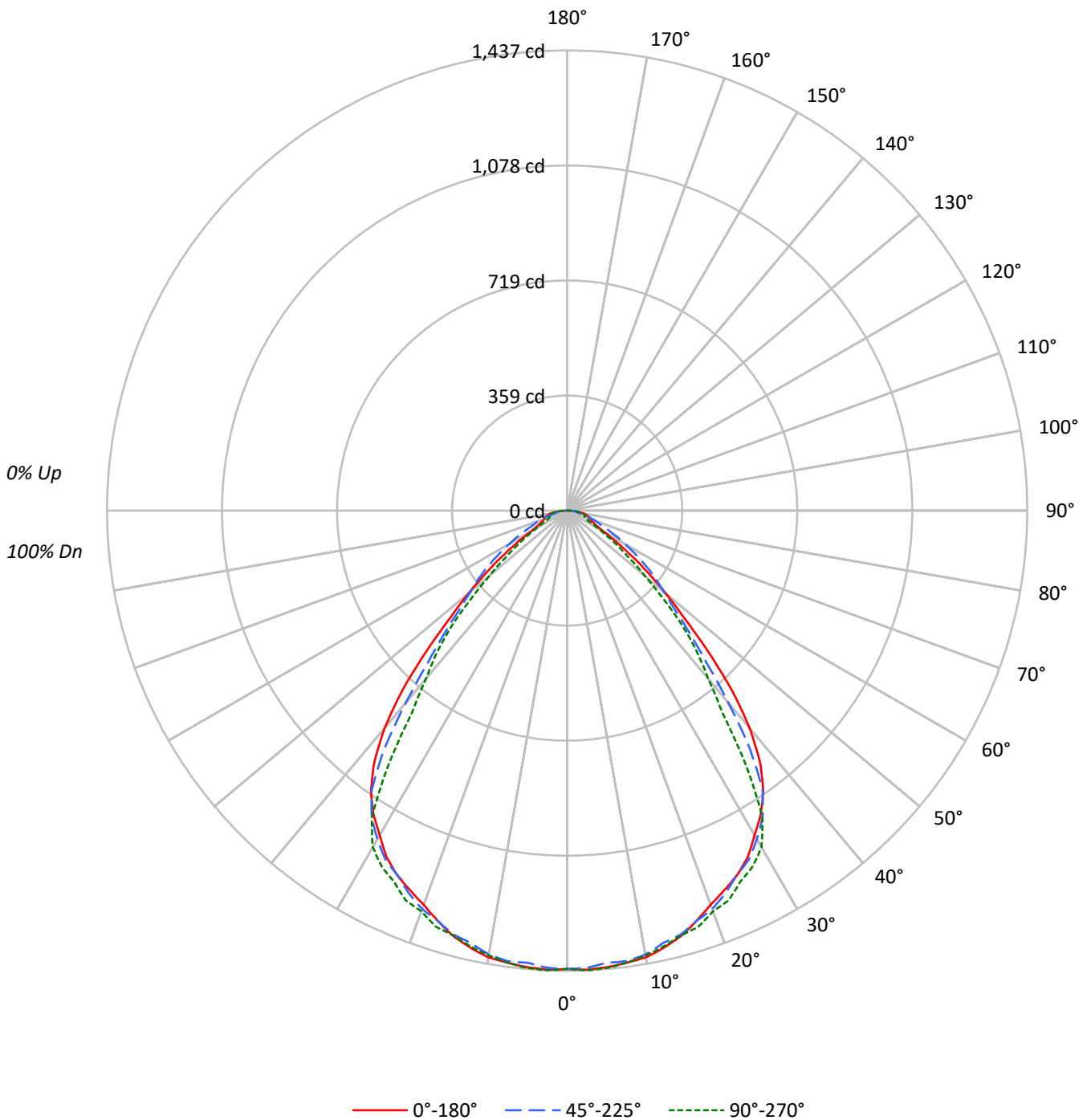
Input Watts (W): 29.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4824	4824	4824
5°	4840	4794	4850
10°	4847	4818	4826
15°	4798	4781	4791
20°	4698	4748	4775
25°	4669	4667	4756
30°	4555	4611	4723
35°	4393	4375	4020
40°	3900	3442	3014
45°	2960	2575	2437
50°	2099	2061	1654
55°	1437	1759	1137
60°	888	1403	760
65°	732	1081	550
70°	729	941	565
75°	874	674	754
80°	1005	621	945
85°	951	1094	1071



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.8	5.0
10°-20°	387.7	14.4
20°-30°	583.0	21.7
30°-40°	635.5	23.6
40°-50°	445.0	16.5
50°-60°	251.9	9.4
60°-70°	137.8	5.1
70°-80°	83.5	3.1
80°-90°	31.7	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°	1106.5	41.1
0°-40°	1742.0	64.7
0°-60°	2438.9	90.6
0°-90°	2691.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2691.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1432	1432	1432	1432	1432	
5°	1431	1428	1417	1434	1434	136
15°	1375	1372	1370	1390	1374	387
25°	1256	1258	1255	1284	1279	577
35°	1068	1063	1064	1009	977	658
45°	621	648	540	534	511	482
55°	245	293	300	297	194	224
65°	92	151	136	171	69	94
75°	67	97	52	102	58	70
85°	25	40	28	34	28	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1431.5	1431.5	1431.5	1431.5	1431.5
2.5°	1435.1	1433.4	1429.0	1437.6	1437.0
5°	1430.9	1428.4	1417.3	1434.0	1434.0
7.5°	1424.7	1418.6	1419.2	1428.4	1424.1
10°	1416.7	1406.2	1408.0	1410.5	1410.5
12.5°	1398.2	1388.3	1383.4	1391.4	1393.9
15°	1375.4	1371.7	1370.5	1390.2	1373.5
17.5°	1343.3	1351.3	1343.9	1360.0	1362.5
20°	1310.1	1325.5	1324.2	1335.4	1331.6
22.5°	1283.0	1292.8	1292.8	1306.4	1317.5
25°	1255.9	1258.3	1255.2	1284.2	1279.2
27.5°	1220.8	1218.9	1228.8	1243.6	1253.4
30°	1170.8	1171.5	1185.0	1204.7	1214.0
32.5°	1125.2	1119.7	1136.3	1145.0	1135.1
35°	1067.9	1063.0	1063.6	1009.4	977.3
37.5°	989.7	994.0	937.3	838.0	796.2
40°	886.7	895.4	782.6	708.6	685.3
42.5°	762.3	764.7	641.5	617.4	602.1
45°	621.2	648.3	540.4	533.6	511.4
47.5°	492.3	542.9	452.9	457.2	404.3
50°	400.5	451.1	393.1	395.0	315.5
52.5°	316.7	366.0	347.0	341.4	247.7
55°	244.6	292.7	299.5	297.0	193.5
57.5°	179.9	231.7	251.4	260.7	149.1
60°	131.8	189.2	208.2	226.8	112.8
62.5°	104.7	163.9	170.7	197.8	87.5
65°	91.8	151.0	135.6	171.3	69.0
67.5°	81.9	143.6	110.3	151.6	60.4
70°	74.0	129.4	95.5	135.6	57.3
72.5°	74.0	113.4	75.1	120.2	57.9
75°	67.1	96.7	51.8	101.7	57.9
77.5°	59.8	82.5	38.8	82.5	54.2
80°	51.8	64.7	32.0	63.5	48.7
82.5°	38.2	48.7	27.7	47.4	39.4
85°	24.6	40.0	28.3	34.5	27.7
87.5°	11.7	20.3	17.8	17.3	14.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)