

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: P225826

Luminaire Tested: **14GR-LD5-32-A19/156-UNV-L930-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P225826
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-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: 2583.8 lumens
Efficiency: N/A
Efficacy: 86.4 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

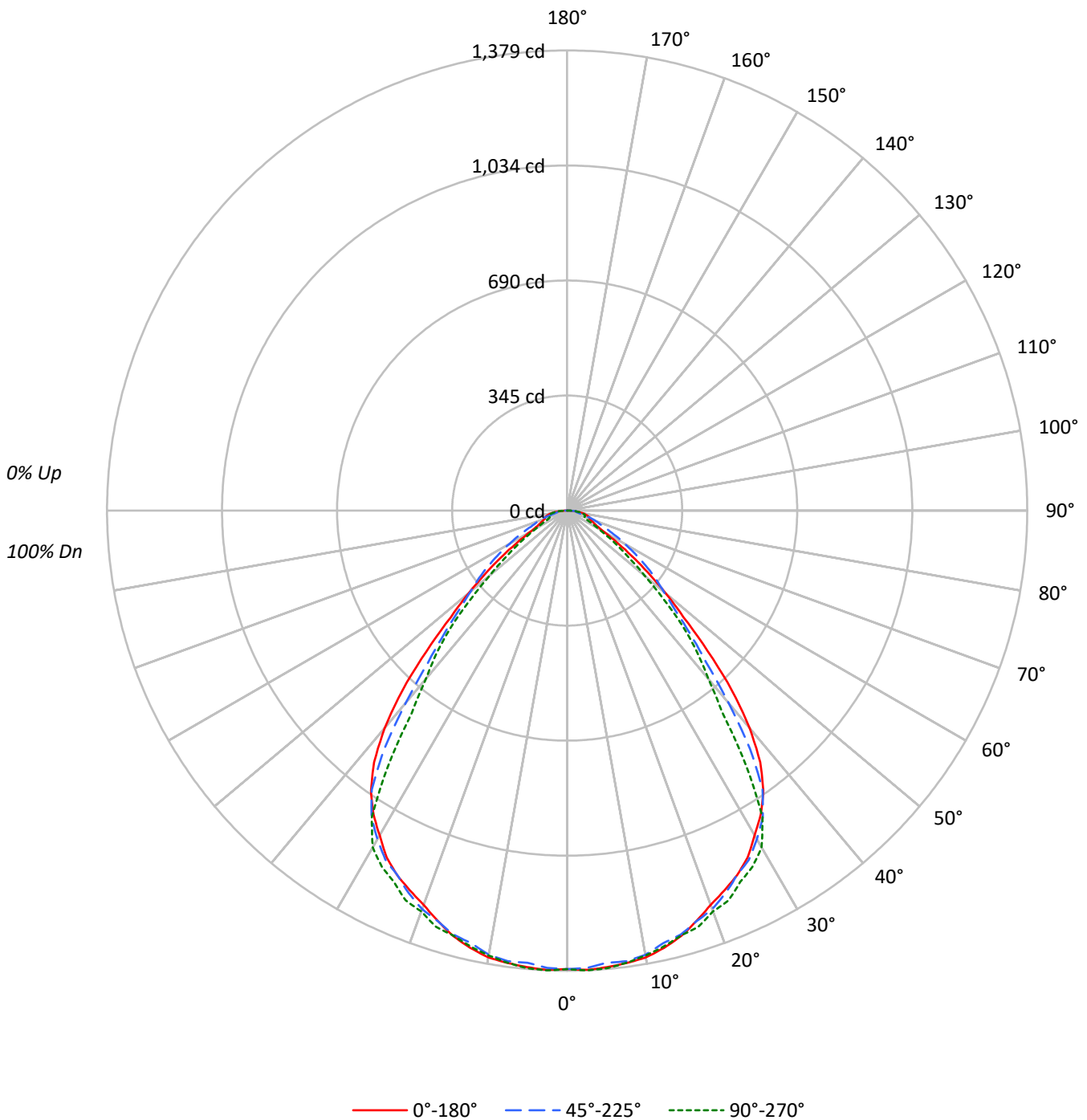
Input Watts (W): 29.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P225826

CATALOG NUMBER: 14GR-LD5-32-A19/156-UNV-L930-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P225826

CATALOG NUMBER: 14GR-LD5-32-A19/156-UNV-L930-CD1-U

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°	4630	4630	4630
5°	4645	4601	4655
10°	4653	4624	4632
15°	4605	4589	4599
20°	4509	4558	4583
25°	4482	4479	4565
30°	4372	4425	4534
35°	4216	4199	3859
40°	3744	3304	2893
45°	2841	2472	2339
50°	2016	1978	1588
55°	1379	1688	1092
60°	853	1347	729
65°	702	1037	528
70°	699	903	542
75°	840	647	724
80°	964	598	906
85°	916	1052	1028



TEST NUMBER: P225826

CATALOG NUMBER: 14GR-LD5-32-A19/156-UNV-L930-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.4	5.0
10°-20°	372.1	14.4
20°-30°	559.5	21.7
30°-40°	610.0	23.6
40°-50°	427.1	16.5
50°-60°	241.8	9.4
60°-70°	132.3	5.1
70°-80°	80.2	3.1
80°-90°	30.4	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°	1062.0	41.1
0°-40°	1672.0	64.7
0°-60°	2340.9	90.6
0°-90°	2583.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2583.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1374	1374	1374	1374	1374	
5°	1373	1371	1360	1376	1376	131
15°	1320	1316	1315	1334	1318	371
25°	1205	1208	1205	1233	1228	554
35°	1025	1020	1021	969	938	632
45°	596	622	519	512	491	463
55°	235	281	287	285	186	215
65°	88	145	130	164	66	91
75°	64	93	50	98	56	67
85°	24	38	27	33	27	26
90°	0	0	0	0	0	



TEST NUMBER: P225826

CATALOG NUMBER: 14GR-LD5-32-A19/156-UNV-L930-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1374.0	1374.0	1374.0	1374.0	1374.0
2.5°	1377.5	1375.7	1371.6	1379.9	1379.3
5°	1373.4	1371.0	1360.4	1376.3	1376.3
7.5°	1367.4	1361.5	1362.1	1371.0	1366.8
10°	1359.8	1349.7	1351.5	1353.8	1353.8
12.5°	1342.0	1332.6	1327.8	1335.6	1337.9
15°	1320.1	1316.5	1315.4	1334.3	1318.4
17.5°	1289.4	1297.0	1290.0	1305.3	1307.7
20°	1257.4	1272.2	1271.1	1281.7	1278.1
22.5°	1231.4	1240.8	1240.8	1253.9	1264.5
25°	1205.4	1207.7	1204.8	1232.6	1227.9
27.5°	1171.7	1169.9	1179.3	1193.5	1203.0
30°	1123.7	1124.4	1137.3	1156.3	1165.2
32.5°	1080.0	1074.7	1090.6	1098.9	1089.5
35°	1025.0	1020.2	1020.8	968.8	938.1
37.5°	949.9	954.0	899.6	804.4	764.2
40°	851.1	859.4	751.2	680.2	657.7
42.5°	731.6	734.0	615.7	592.6	577.8
45°	596.2	622.3	518.8	512.2	490.9
47.5°	472.6	521.1	434.8	438.8	388.0
50°	384.5	432.9	377.3	379.1	302.9
52.5°	304.0	351.3	333.0	327.7	237.8
55°	234.8	281.0	287.4	285.1	185.8
57.5°	172.7	222.4	241.3	250.2	143.1
60°	126.6	181.6	199.9	217.6	108.2
62.5°	100.5	157.4	163.8	189.8	84.0
65°	88.1	144.9	130.1	164.4	66.2
67.5°	78.7	137.8	105.9	145.5	57.9
70°	71.0	124.2	91.7	130.1	55.0
72.5°	71.0	108.8	72.1	115.4	55.6
75°	64.5	92.9	49.7	97.6	55.6
77.5°	57.4	79.3	37.3	79.3	52.0
80°	49.7	62.1	30.8	60.9	46.7
82.5°	36.7	46.7	26.6	45.6	37.8
85°	23.7	38.4	27.2	33.1	26.6
87.5°	11.2	19.5	17.2	16.6	13.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)