

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: P225823

Luminaire Tested: **14GR-LD5-20-A19/156-UNV-L930-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P225823
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-LD5-20-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: 1609.4 lumens
Efficiency: N/A
Efficacy: 93.0 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

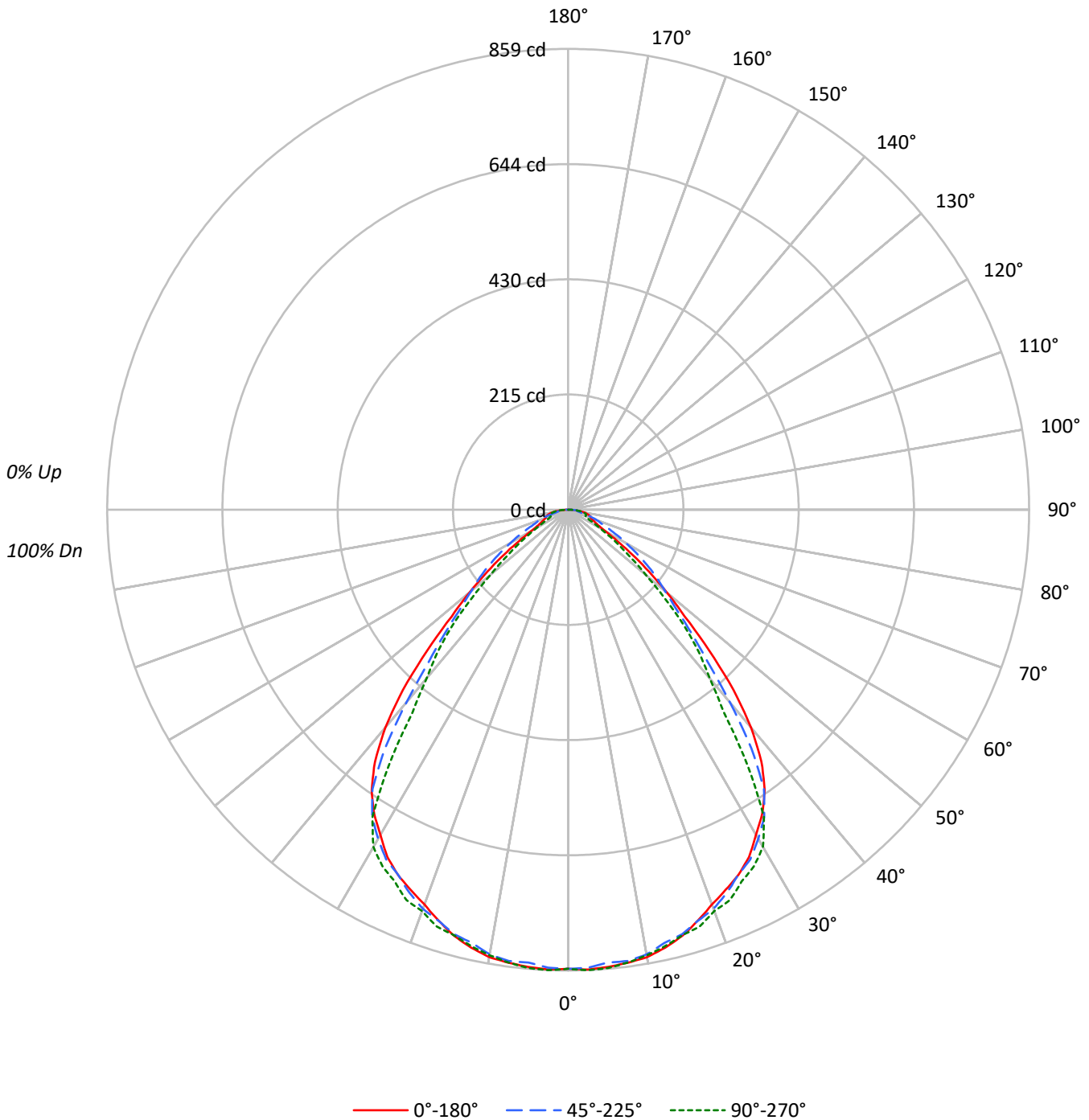
Input Watts (W): 17.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2884	2884	2884
5°	2893	2866	2900
10°	2898	2880	2885
15°	2869	2858	2865
20°	2808	2839	2855
25°	2791	2790	2843
30°	2723	2756	2824
35°	2626	2616	2404
40°	2332	2058	1802
45°	1769	1540	1457
50°	1255	1232	989
55°	859	1052	680
60°	531	839	454
65°	438	646	329
70°	435	563	338
75°	523	404	450
80°	602	373	565
85°	572	653	642



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.2	5.0
10°-20°	231.8	14.4
20°-30°	348.5	21.7
30°-40°	380.0	23.6
40°-50°	266.0	16.5
50°-60°	150.6	9.4
60°-70°	82.4	5.1
70°-80°	50.0	3.1
80°-90°	18.9	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°	661.5	41.1
0°-40°	1041.4	64.7
0°-60°	1458.1	90.6
0°-90°	1609.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1609.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	856	856	856	856	856	
5°	855	854	847	857	857	81
15°	822	820	819	831	821	231
25°	751	752	750	768	765	345
35°	638	636	636	603	584	393
45°	371	388	323	319	306	288
55°	146	175	179	178	116	134
65°	55	90	81	102	41	56
75°	40	58	31	61	35	42
85°	15	24	17	21	17	16
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	855.8	855.8	855.8	855.8	855.8
2.5°	858.0	856.9	854.3	859.5	859.1
5°	855.4	854.0	847.3	857.3	857.3
7.5°	851.7	848.1	848.4	854.0	851.4
10°	846.9	840.7	841.8	843.3	843.3
12.5°	835.9	830.0	827.1	831.8	833.3
15°	822.3	820.0	819.3	831.1	821.2
17.5°	803.1	807.9	803.5	813.1	814.6
20°	783.2	792.4	791.7	798.3	796.1
22.5°	767.0	772.9	772.9	781.0	787.7
25°	750.8	752.3	750.4	767.8	764.8
27.5°	729.8	728.7	734.6	743.4	749.3
30°	699.9	700.4	708.4	720.2	725.8
32.5°	672.7	669.4	679.4	684.5	678.6
35°	638.4	635.5	635.9	603.4	584.3
37.5°	591.6	594.2	560.3	501.0	476.0
40°	530.1	535.3	467.9	423.6	409.7
42.5°	455.8	457.2	383.5	369.1	360.0
45°	371.3	387.5	323.1	319.1	305.8
47.5°	294.3	324.5	270.7	273.3	241.7
50°	239.5	269.7	235.1	236.1	188.7
52.5°	189.3	218.9	207.4	204.1	148.1
55°	146.2	175.0	179.0	177.5	115.7
57.5°	107.6	138.5	150.3	155.9	89.1
60°	78.8	113.1	124.5	135.5	67.4
62.5°	62.7	98.0	102.0	118.3	52.3
65°	54.9	90.2	81.0	102.4	41.3
67.5°	49.0	85.8	66.0	90.6	36.1
70°	44.2	77.4	57.1	81.0	34.3
72.5°	44.2	67.8	45.0	71.9	34.6
75°	40.2	57.9	31.0	60.8	34.6
77.5°	35.8	49.4	23.2	49.4	32.5
80°	31.0	38.7	19.2	37.9	29.1
82.5°	22.8	29.1	16.6	28.4	23.6
85°	14.8	24.0	16.9	20.7	16.6
87.5°	7.0	12.1	10.7	10.3	8.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)