

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: P225830

Luminaire Tested: **14GR-LD5-20-A19/156-UNV-L935-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P225830
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-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: 1677.1 lumens
Efficiency: N/A
Efficacy: 96.9 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

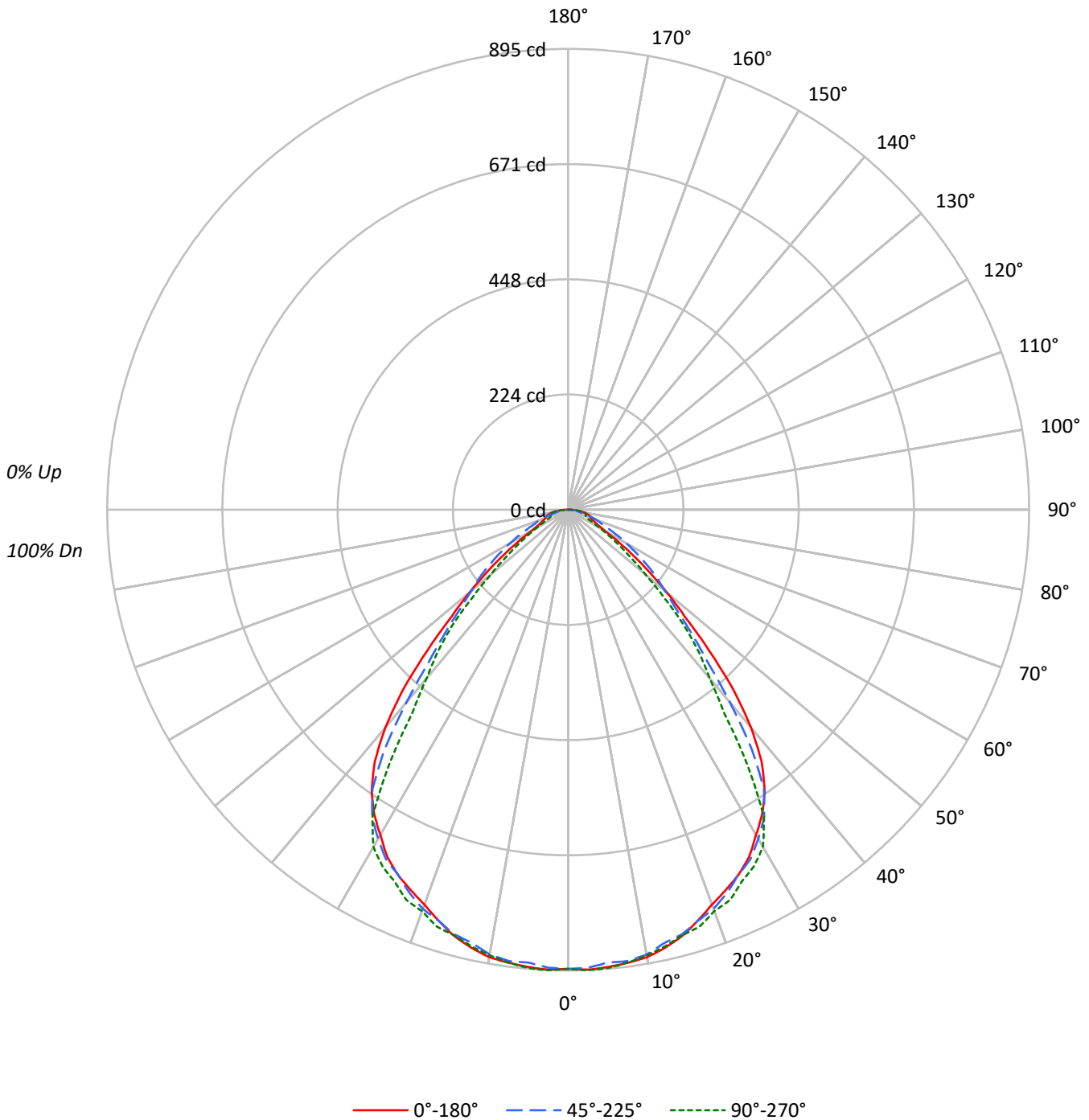
Input Watts (W): 17.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3005	3005	3005
5°	3015	2987	3022
10°	3020	3001	3007
15°	2989	2978	2985
20°	2927	2958	2975
25°	2909	2907	2963
30°	2838	2872	2942
35°	2737	2726	2505
40°	2430	2145	1878
45°	1844	1604	1519
50°	1308	1284	1030
55°	895	1096	708
60°	554	875	474
65°	456	674	343
70°	454	586	352
75°	544	419	470
80°	625	388	588
85°	595	684	669



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.6	5.0
10°-20°	241.5	14.4
20°-30°	363.2	21.7
30°-40°	395.9	23.6
40°-50°	277.2	16.5
50°-60°	156.9	9.4
60°-70°	85.9	5.1
70°-80°	52.0	3.1
80°-90°	19.7	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°	689.3	41.1
0°-40°	1085.2	64.7
0°-60°	1519.4	90.6
0°-90°	1677.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1677.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	892	892	892	892	892	
5°	891	890	883	893	893	85
15°	857	855	854	866	856	241
25°	782	784	782	800	797	359
35°	665	662	663	629	609	410
45°	387	404	337	332	319	301
55°	152	182	187	185	120	139
65°	57	94	84	107	43	59
75°	42	60	32	63	36	43
85°	15	25	18	22	17	17
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	891.8	891.8	891.8	891.8	891.8
2.5°	894.1	892.9	890.3	895.6	895.2
5°	891.4	889.9	883.0	893.4	893.4
7.5°	887.6	883.7	884.1	889.9	887.1
10°	882.6	876.0	877.2	878.7	878.7
12.5°	871.1	864.9	861.8	866.8	868.4
15°	856.9	854.6	853.8	866.1	855.7
17.5°	836.9	841.9	837.2	847.3	848.8
20°	816.2	825.8	825.0	831.9	829.6
22.5°	799.3	805.4	805.4	813.9	820.8
25°	782.3	784.0	782.0	800.0	797.0
27.5°	760.5	759.3	765.5	774.7	780.8
30°	729.4	729.8	738.2	750.6	756.2
32.5°	701.0	697.5	707.9	713.3	707.1
35°	665.3	662.2	662.6	628.8	608.9
37.5°	616.5	619.2	583.9	522.1	496.0
40°	552.4	557.8	487.6	441.5	426.9
42.5°	474.9	476.4	399.7	384.6	375.1
45°	387.0	403.8	336.7	332.4	318.7
47.5°	306.8	338.2	282.2	284.8	251.9
50°	249.6	281.0	244.9	246.1	196.5
52.5°	197.3	228.1	216.2	212.7	154.4
55°	152.4	182.3	186.6	185.0	120.5
57.5°	112.1	144.3	156.7	162.4	92.9
60°	82.2	117.9	129.8	141.3	70.3
62.5°	65.3	102.1	106.3	123.2	54.5
65°	57.2	94.1	84.5	106.8	43.0
67.5°	51.1	89.4	68.7	94.4	37.7
70°	46.1	80.6	59.5	84.5	35.7
72.5°	46.1	70.6	46.8	74.9	36.1
75°	41.8	60.3	32.2	63.3	36.1
77.5°	37.2	51.4	24.2	51.4	33.7
80°	32.2	40.3	20.0	39.5	30.3
82.5°	23.8	30.3	17.3	29.6	24.6
85°	15.4	25.0	17.7	21.5	17.3
87.5°	7.3	12.7	11.1	10.7	8.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)