

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: P225825

Luminaire Tested: **14GR-LD5-28-A19/156-UNV-L930-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P225825
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-LD5-28-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: 2223.6 lumens
Efficiency: N/A
Efficacy: 89.3 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

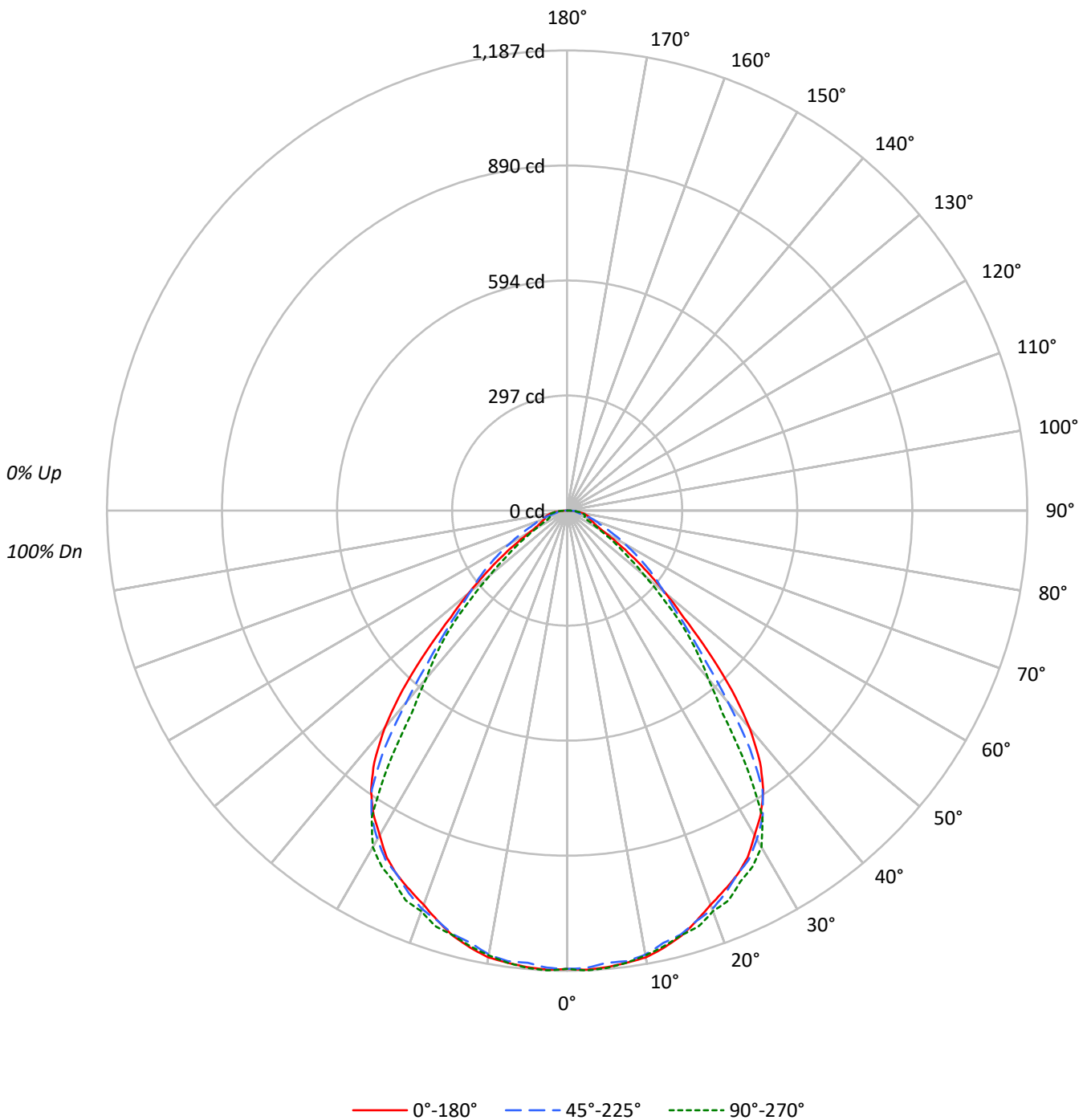
Input Watts (W): 24.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3984	3984	3984
5°	3998	3960	4006
10°	4004	3980	3986
15°	3963	3949	3958
20°	3881	3923	3944
25°	3857	3855	3929
30°	3763	3808	3901
35°	3629	3614	3321
40°	3222	2843	2490
45°	2445	2127	2013
50°	1734	1703	1366
55°	1187	1453	939
60°	734	1160	627
65°	605	893	454
70°	602	777	466
75°	721	556	622
80°	829	514	780
85°	785	905	885



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.2	5.0
10°-20°	320.2	14.4
20°-30°	481.5	21.7
30°-40°	525.0	23.6
40°-50°	367.6	16.5
50°-60°	208.1	9.4
60°-70°	113.9	5.1
70°-80°	69.0	3.1
80°-90°	26.2	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°	913.9	41.1
0°-40°	1438.9	64.7
0°-60°	2014.6	90.6
0°-90°	2223.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2223.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1182	1182	1182	1182	1182	
5°	1182	1180	1171	1184	1184	112
15°	1136	1133	1132	1148	1134	320
25°	1037	1039	1037	1061	1057	476
35°	882	878	879	834	807	544
45°	513	535	446	441	422	398
55°	202	242	247	245	160	185
65°	76	125	112	142	57	78
75°	55	80	43	84	48	58
85°	20	33	23	28	23	23
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1182.4	1182.4	1182.4	1182.4	1182.4
2.5°	1185.5	1183.9	1180.3	1187.5	1187.0
5°	1181.9	1179.8	1170.7	1184.4	1184.4
7.5°	1176.8	1171.7	1172.2	1179.8	1176.3
10°	1170.2	1161.5	1163.1	1165.1	1165.1
12.5°	1154.9	1146.8	1142.7	1149.3	1151.4
15°	1136.1	1133.0	1132.0	1148.3	1134.5
17.5°	1109.6	1116.3	1110.1	1123.4	1125.4
20°	1082.2	1094.9	1093.9	1103.0	1099.9
22.5°	1059.7	1067.9	1067.9	1079.1	1088.2
25°	1037.3	1039.4	1036.8	1060.7	1056.7
27.5°	1008.4	1006.8	1014.9	1027.1	1035.3
30°	967.1	967.6	978.8	995.1	1002.7
32.5°	929.4	924.9	938.6	945.7	937.6
35°	882.1	878.1	878.6	833.7	807.3
37.5°	817.5	821.0	774.2	692.2	657.6
40°	732.5	739.6	646.4	585.3	566.0
42.5°	629.6	631.6	529.9	510.0	497.3
45°	513.1	535.4	446.4	440.8	422.5
47.5°	406.7	448.4	374.1	377.6	333.9
50°	330.8	372.6	324.8	326.3	260.6
52.5°	261.6	302.4	286.6	282.0	204.6
55°	202.1	241.8	247.3	245.3	159.9
57.5°	148.7	191.4	207.7	215.3	123.2
60°	108.9	156.3	172.1	187.3	93.1
62.5°	86.6	135.4	141.0	163.4	72.3
65°	75.9	124.7	112.0	141.5	57.0
67.5°	67.7	118.6	91.1	125.2	49.9
70°	61.1	106.9	78.9	112.0	47.3
72.5°	61.1	93.6	62.1	99.3	47.8
75°	55.4	79.9	42.7	84.0	47.8
77.5°	49.4	68.2	32.0	68.2	44.8
80°	42.7	53.5	26.5	52.5	40.2
82.5°	31.5	40.2	22.9	39.2	32.5
85°	20.3	33.1	23.4	28.5	22.9
87.5°	9.7	16.8	14.8	14.3	11.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)