

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: P225913

Luminaire Tested: **14GR-LD5-20-A-UNV-L935-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P225913
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33314)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/12/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-20-A-UNV-L935-CD1-U
Description: METALUX GR 1X4 LED TROFFER WITH A LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1743.3 lumens
Efficiency: N/A
Efficacy: 100.8 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.21 / 1.26
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

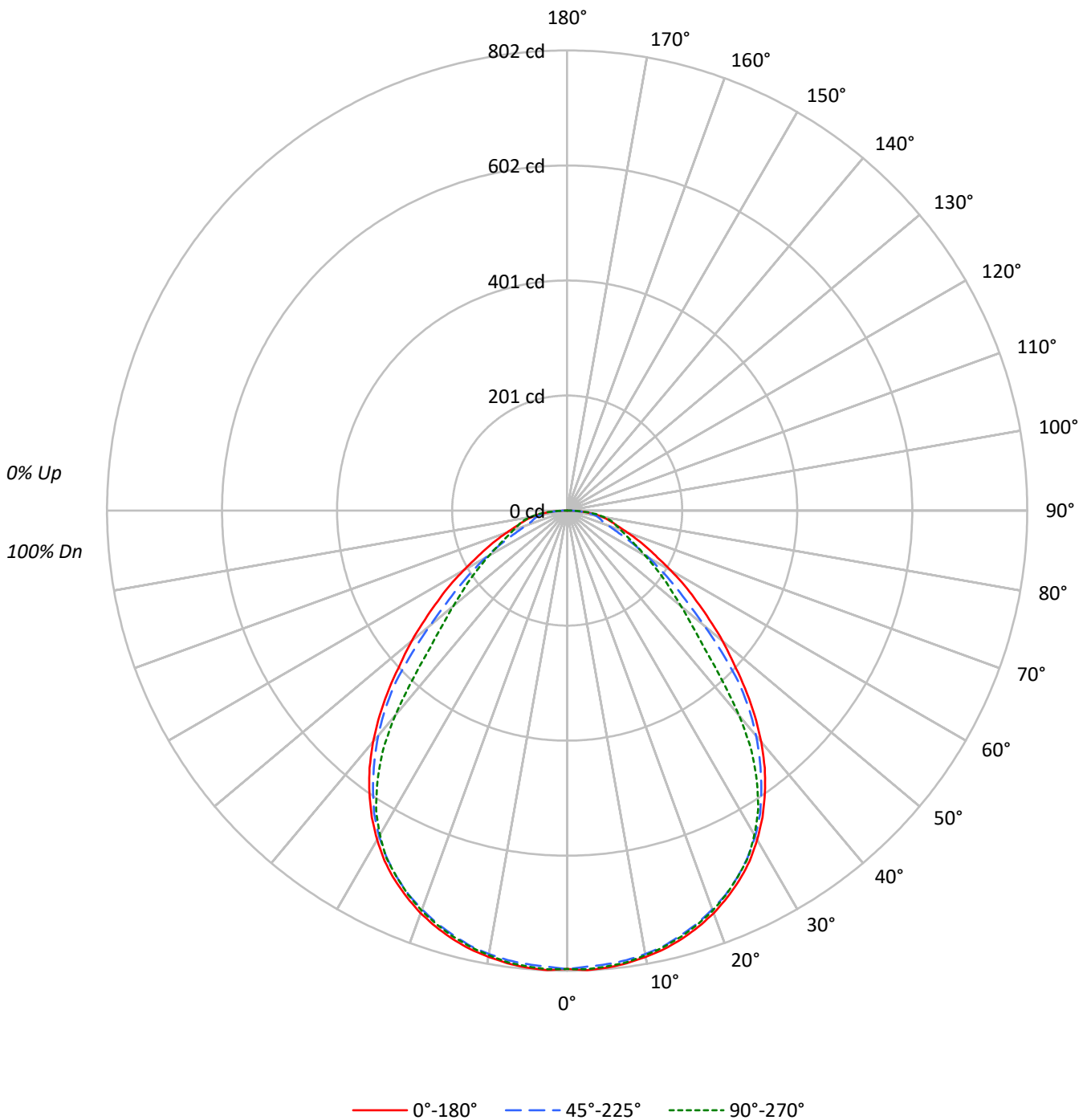
Input Watts (W): 17.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86					86			
2	101	94	88	83	99	92	86	82	88	84	80	85	81	78	82	79	76	74					74			
3	93	84	76	71	91	82	75	70	79	74	69	77	72	68	74	70	66	64					64			
4	86	75	67	61	84	74	67	61	72	65	60	69	64	59	67	62	58	56					56			
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50					50			
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46	44					44			
7	69	57	48	43	67	56	48	43	54	47	42	53	47	42	52	46	42	40					40			
8	65	52	44	38	63	51	44	38	50	43	38	49	43	38	48	42	38	36					36			
9	61	48	40	35	59	47	40	35	46	39	35	45	39	35	44	39	34	33					33			
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	36	31	30					30			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2692	2692	2692
5°	2705	2684	2698
10°	2702	2685	2692
15°	2697	2672	2681
20°	2677	2653	2660
25°	2642	2616	2618
30°	2577	2550	2540
35°	2472	2427	2372
40°	2314	2255	2052
45°	2090	2010	1604
50°	1853	1632	1356
55°	1617	1339	1197
60°	1402	1102	1056
65°	1230	884	975
70°	1098	751	981
75°	1070	792	1096
80°	1186	997	1257
85°	1237	1063	1473



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.8	4.3
10°-20°	217.1	12.5
20°-30°	324.8	18.6
30°-40°	366.7	21.0
40°-50°	311.1	17.8
50°-60°	210.5	12.1
60°-70°	125.6	7.2
70°-80°	78.7	4.5
80°-90°	33.1	1.9
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°	617.8	35.4
0°-40°	984.4	56.5
0°-60°	1505.9	86.4
0°-90°	1743.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1743.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	799	799	799	799	799	
5°	800	797	794	799	798	76
15°	773	771	766	771	768	218
25°	711	708	704	707	704	327
35°	601	597	590	585	577	374
45°	438	440	422	362	336	338
55°	275	262	228	204	204	248
65°	154	128	111	118	122	154
75°	82	73	61	80	84	88
85°	32	30	28	36	38	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	798.9	798.9	798.9	798.9	798.9
2.5°	801.7	799.3	795.6	800.5	800.1
5°	799.7	797.3	793.6	799.3	797.6
7.5°	796.0	794.0	790.4	795.6	794.0
10°	789.6	787.9	784.7	789.1	786.8
12.5°	782.7	781.5	777.4	781.5	779.0
15°	773.0	771.4	766.1	771.4	768.5
17.5°	760.8	758.8	754.4	758.8	756.3
20°	746.6	744.3	739.8	744.3	741.8
22.5°	729.6	727.6	723.6	727.6	724.4
25°	710.6	708.2	703.7	706.9	704.1
27.5°	688.8	685.5	681.4	683.9	682.3
30°	662.4	658.4	655.5	655.5	652.7
32.5°	633.7	630.9	626.0	623.1	619.5
35°	600.9	596.9	590.0	584.7	576.6
37.5°	565.7	560.8	552.3	538.9	528.0
40°	526.0	519.9	512.6	486.3	466.5
42.5°	483.5	482.2	469.7	424.7	397.2
45°	438.5	440.1	421.9	361.6	336.5
47.5°	393.1	398.8	365.7	306.5	293.6
50°	353.5	355.5	311.4	266.0	258.7
52.5°	312.6	309.3	265.6	234.0	228.7
55°	275.3	262.4	228.0	204.1	203.7
57.5°	242.5	218.6	194.7	177.0	179.0
60°	208.1	181.4	163.5	153.8	156.7
62.5°	177.7	152.2	136.4	133.6	138.5
65°	154.3	127.9	110.9	118.2	122.3
67.5°	132.0	109.7	90.3	107.7	109.3
70°	111.4	95.1	76.2	99.2	99.6
72.5°	94.4	84.2	66.0	89.9	91.1
75°	82.2	73.3	60.8	80.2	84.2
77.5°	72.1	62.7	56.3	69.3	76.2
80°	61.1	50.6	51.4	57.9	64.8
82.5°	47.0	39.3	40.9	47.8	52.6
85°	32.0	30.3	27.5	35.6	38.1
87.5°	17.0	16.2	14.2	20.2	19.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)