

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: P476286

Luminaire Tested: **14GR-LD5-20-A-UNV-L835-CD1-U**

Issue Date: 02/10/2021



Test Information

Test Method: LM-79-08
Report Number: P476286
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-20-A-UNV-L835-CD1-U
Description: GR 1'X4' LED TROFFER w/ A LENS
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

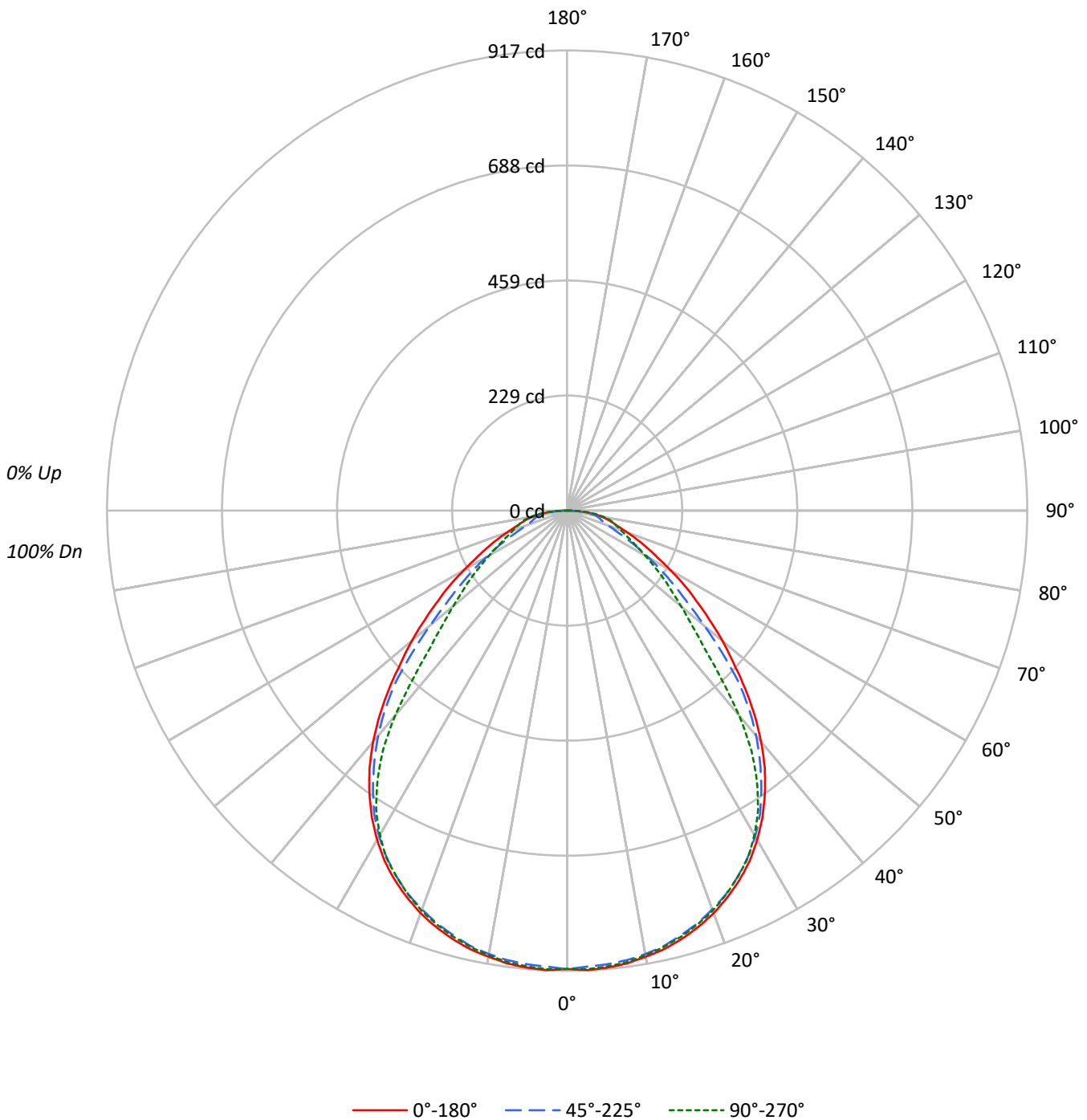
Lumens per Lamp: N/A
Luminaire Lumens: 1993.3 lumens
Efficiency: N/A
Efficacy: 124.6 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.21 / 1.26
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 16
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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	94	88	83	99	92	86	82	88	84	80	85	81	78	82	79	76	74
3	93	84	76	71	91	82	75	70	79	74	69	77	72	68	74	70	66	64
4	86	75	67	61	84	74	67	61	72	65	60	69	64	59	67	62	58	56
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46	44
7	69	57	48	43	67	56	48	43	54	47	42	53	47	42	52	46	42	40
8	65	52	44	38	63	51	44	38	50	43	38	49	43	38	48	42	38	36
9	61	48	40	35	59	47	40	35	46	39	35	45	39	35	44	39	34	33
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	36	31	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3078	3078	3078
5°	3093	3070	3085
10°	3089	3070	3078
15°	3083	3056	3065
20°	3061	3033	3041
25°	3021	2991	2993
30°	2947	2916	2904
35°	2826	2775	2712
40°	2645	2578	2346
45°	2389	2299	1834
50°	2119	1866	1551
55°	1849	1532	1368
60°	1603	1260	1208
65°	1406	1011	1115
70°	1254	858	1122
75°	1224	905	1254
80°	1356	1141	1438
85°	1411	1218	1682



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.7	4.3
10°-20°	248.3	12.5
20°-30°	371.4	18.6
30°-40°	419.3	21.0
40°-50°	355.7	17.8
50°-60°	240.7	12.1
60°-70°	143.6	7.2
70°-80°	90.0	4.5
80°-90°	37.8	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°	706.3	35.4
0°-40°	1125.6	56.5
0°-60°	1721.9	86.4
0°-90°	1993.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1993.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	914	914	914	914	914	
5°	914	912	908	914	912	87
15°	884	882	876	882	879	249
25°	812	810	805	808	805	374
35°	687	682	675	669	659	428
45°	501	503	482	413	385	386
55°	315	300	261	233	233	284
65°	176	146	127	135	140	176
75°	94	84	70	92	96	101
85°	36	35	32	41	44	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	913.5	913.5	913.5	913.5	913.5
2.5°	916.7	913.9	909.7	915.3	914.8
5°	914.4	911.6	907.5	913.9	912.0
7.5°	910.2	907.8	903.8	909.7	907.8
10°	902.8	900.9	897.3	902.3	899.6
12.5°	894.9	893.6	888.9	893.6	890.7
15°	883.8	882.0	876.0	882.0	878.7
17.5°	869.9	867.6	862.6	867.6	864.8
20°	853.7	851.0	845.8	851.0	848.2
22.5°	834.3	831.9	827.4	831.9	828.2
25°	812.5	809.8	804.6	808.3	805.1
27.5°	787.5	783.8	779.2	782.0	780.1
30°	757.4	752.8	749.5	749.5	746.3
32.5°	724.5	721.3	715.8	712.5	708.3
35°	687.0	682.5	674.6	668.6	659.2
37.5°	646.8	641.3	631.5	616.2	603.7
40°	601.4	594.4	586.1	556.0	533.4
42.5°	552.8	551.4	537.1	485.7	454.2
45°	501.4	503.2	482.4	413.4	384.8
47.5°	449.5	456.0	418.1	350.5	335.7
50°	404.2	406.4	356.0	304.2	295.8
52.5°	357.5	353.7	303.7	267.6	261.5
55°	314.8	300.0	260.7	233.4	232.9
57.5°	277.3	250.0	222.7	202.3	204.7
60°	237.9	207.4	187.0	175.9	179.2
62.5°	203.2	174.1	156.0	152.8	158.3
65°	176.4	146.3	126.8	135.2	139.9
67.5°	150.9	125.5	103.2	123.1	125.0
70°	127.3	108.8	87.1	113.4	113.9
72.5°	107.9	96.3	75.4	102.8	104.2
75°	94.0	83.8	69.5	91.6	96.3
77.5°	82.4	71.7	64.3	79.2	87.1
80°	69.9	57.8	58.8	66.2	74.1
82.5°	53.7	44.9	46.7	54.6	60.2
85°	36.5	34.7	31.5	40.7	43.5
87.5°	19.4	18.6	16.2	23.1	21.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)