

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: P476340

Luminaire Tested: **14GR-LD5-20-A125-UNV-L850-CD1-U**

Issue Date: 02/10/2021



Test Information

Test Method: LM-79-08
Report Number: P476340
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-20-A125-UNV-L850-CD1-U
Description: GR 1'X4' LED TROFFER w/ A125 LENS
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

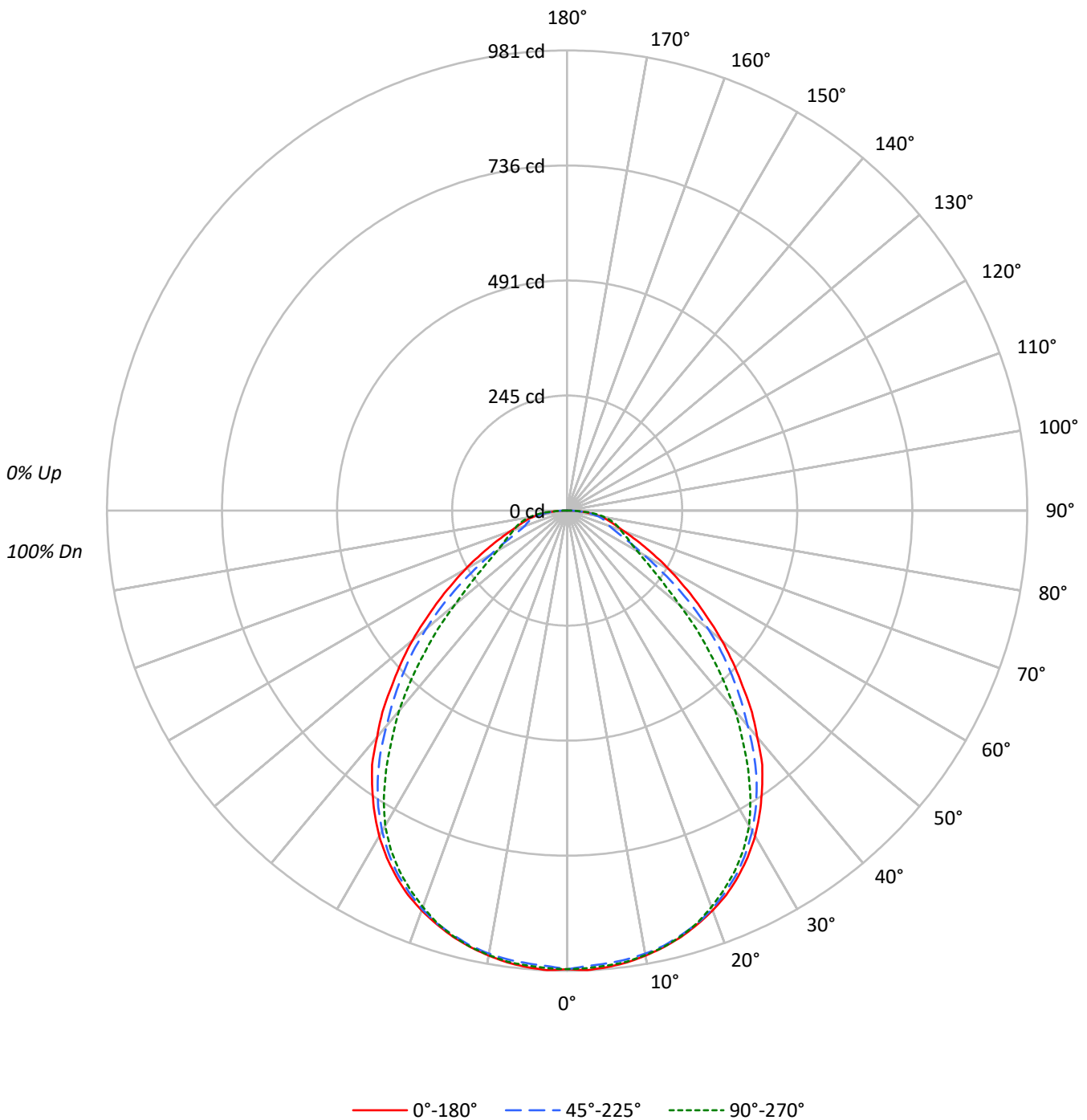
Lumens per Lamp: N/A
Luminaire Lumens: 2104.6 lumens
Efficiency: N/A
Efficacy: 131.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.18 / 1.24
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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	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				
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	73	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	48	59	52	47	58	51	47	56	51	46					44				
7	69	57	48	43	68	56	48	43	54	47	42	53	47	42	52	46	42					40				
8	65	52	44	39	63	51	44	38	50	43	38	49	43	38	48	42	38					36				
9	61	48	40	35	59	47	40	35	46	40	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	32					30				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2631	2631	2631
5°	2640	2617	2630
10°	2633	2621	2629
15°	2620	2611	2616
20°	2598	2588	2576
25°	2559	2538	2514
30°	2491	2451	2410
35°	2379	2314	2209
40°	2214	2103	1958
45°	2012	1891	1642
50°	1802	1642	1308
55°	1565	1340	1062
60°	1350	1013	927
65°	1155	810	909
70°	1020	755	954
75°	1017	864	1089
80°	1099	1007	1251
85°	1176	1071	1436



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.6	4.4
10°-20°	264.9	12.6
20°-30°	393.0	18.7
30°-40°	436.4	20.7
40°-50°	376.4	17.9
50°-60°	255.3	12.1
60°-70°	147.6	7.0
70°-80°	96.4	4.6
80°-90°	42.0	2.0
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°	750.5	35.7
0°-40°	1186.9	56.4
0°-60°	1818.6	86.4
0°-90°	2104.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2104.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	978	978	978	978	978	
5°	977	973	969	976	974	93
15°	940	938	937	943	939	265
25°	862	861	855	852	847	396
35°	724	718	704	685	672	451
45°	529	520	497	456	431	409
55°	334	327	286	243	226	300
65°	181	161	127	130	143	182
75°	98	88	83	93	105	104
85°	38	37	35	48	46	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	977.7	977.7	977.7	977.7	977.7
2.5°	980.6	977.2	971.8	977.7	976.2
5°	977.2	973.3	968.9	975.7	973.7
7.5°	971.8	967.9	965.4	971.3	970.3
10°	963.5	960.5	959.1	966.4	962.0
12.5°	953.2	950.8	950.3	956.1	952.7
15°	940.5	938.5	937.1	943.4	939.0
17.5°	924.8	923.9	922.9	925.8	921.9
20°	907.2	906.3	903.8	904.3	899.4
22.5°	886.7	885.7	880.8	879.8	874.5
25°	861.7	860.8	854.9	852.5	846.6
27.5°	833.4	833.9	824.1	819.7	814.3
30°	801.6	799.6	788.9	781.5	775.7
32.5°	764.4	762.0	749.3	737.5	727.3
35°	724.3	717.5	704.3	684.7	672.5
37.5°	683.2	673.9	654.4	629.4	613.3
40°	630.4	620.6	598.6	570.3	557.5
42.5°	583.0	572.7	548.3	515.0	494.9
45°	528.7	520.4	496.9	455.8	431.4
47.5°	479.3	470.5	446.5	398.1	374.1
50°	430.4	420.6	392.2	339.9	312.5
52.5°	379.5	374.1	339.4	287.1	265.1
55°	333.5	326.7	285.6	243.1	226.4
57.5°	289.5	278.3	233.8	202.0	195.6
60°	250.9	235.2	188.3	170.7	172.2
62.5°	214.2	195.6	154.5	146.2	154.5
65°	181.4	160.9	127.2	130.1	142.8
67.5°	152.6	133.0	108.1	119.8	130.6
70°	129.6	113.5	95.9	109.1	121.3
72.5°	111.0	100.3	90.0	100.3	113.5
75°	97.8	88.5	83.1	92.9	104.7
77.5°	85.6	78.3	75.8	83.6	93.4
80°	70.9	67.5	65.0	75.3	80.7
82.5°	54.8	53.3	51.4	64.1	66.5
85°	38.1	37.2	34.7	48.4	46.5
87.5°	20.1	19.1	17.6	25.4	23.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)