

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: P476305

Luminaire Tested: **14GR-LD5-24-A-UNV-L850-CD1-U**

Issue Date: 02/10/2021



Test Information

Test Method: LM-79-08
Report Number: P476305
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-24-A-UNV-L850-CD1-U
Description: GR 1'X4' LED TROFFER w/ A LENS
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

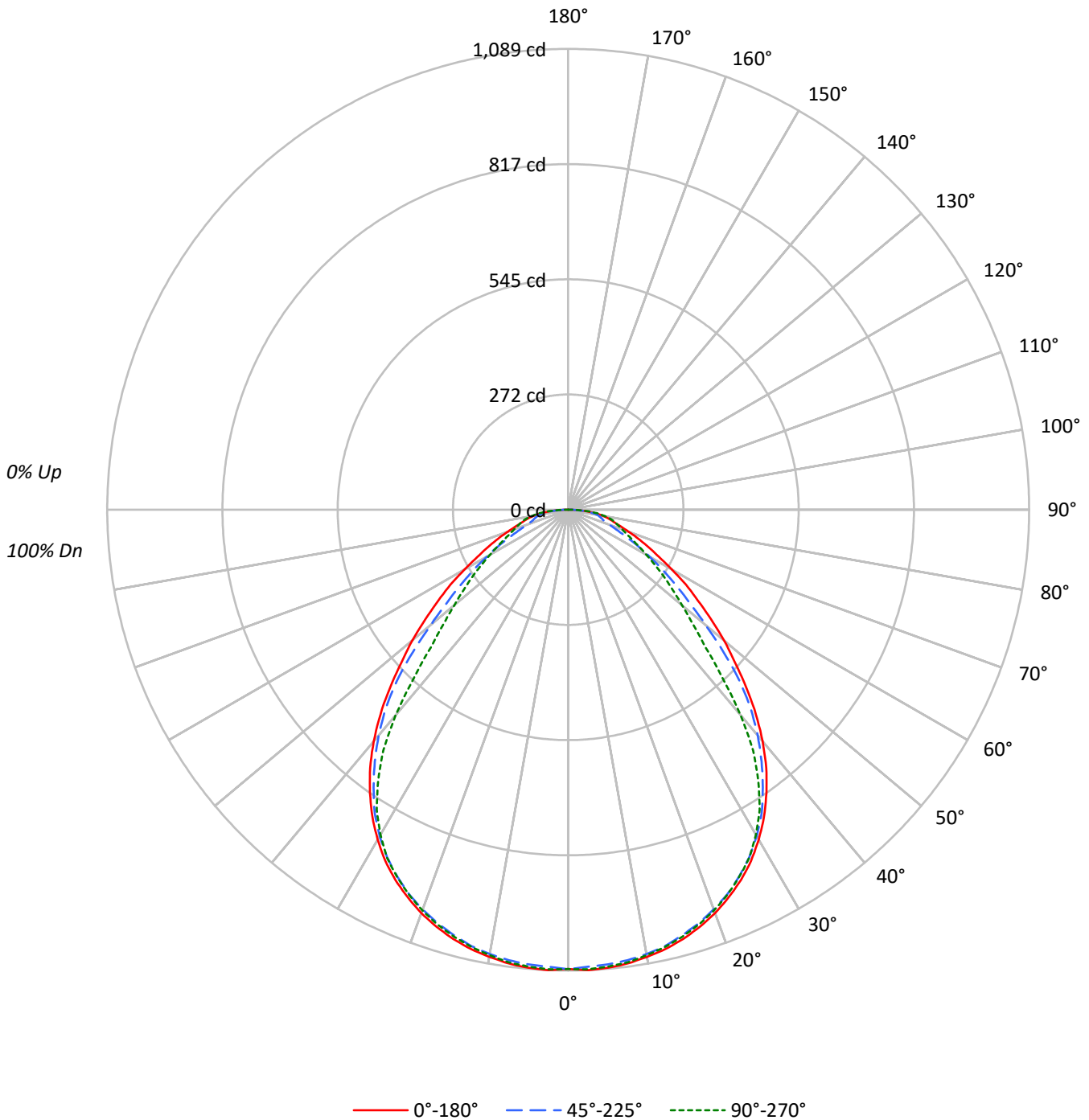
Lumens per Lamp: N/A
Luminaire Lumens: 2368.6 lumens
Efficiency: N/A
Efficacy: 128.0 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.21 / 1.26
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 18.5
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°	3658	3658	3658
5°	3675	3647	3666
10°	3671	3648	3657
15°	3664	3631	3642
20°	3637	3604	3614
25°	3590	3555	3557
30°	3502	3465	3450
35°	3358	3297	3222
40°	3143	3064	2788
45°	2839	2732	2179
50°	2518	2217	1843
55°	2198	1819	1626
60°	1905	1497	1435
65°	1671	1202	1325
70°	1491	1020	1333
75°	1454	1075	1489
80°	1611	1356	1708
85°	1678	1446	1999



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.0	4.3
10°-20°	295.0	12.5
20°-30°	441.3	18.6
30°-40°	498.2	21.0
40°-50°	422.6	17.8
50°-60°	285.9	12.1
60°-70°	170.7	7.2
70°-80°	106.9	4.5
80°-90°	45.0	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°	839.3	35.4
0°-40°	1337.5	56.5
0°-60°	2046.1	86.4
0°-90°	2368.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2368.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1086	1086	1086	1086	1086	
5°	1086	1083	1078	1086	1084	103
15°	1050	1048	1041	1048	1044	296
25°	966	962	956	960	957	444
35°	816	811	802	794	783	509
45°	596	598	573	491	457	459
55°	374	356	310	277	277	337
65°	210	174	151	161	166	209
75°	112	100	83	109	114	120
85°	43	41	37	48	52	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1085.5	1085.5	1085.5	1085.5	1085.5
2.5°	1089.3	1085.9	1081.0	1087.6	1087.1
5°	1086.5	1083.3	1078.3	1085.9	1083.7
7.5°	1081.5	1078.8	1073.9	1081.0	1078.8
10°	1072.8	1070.6	1066.2	1072.2	1068.9
12.5°	1063.4	1061.8	1056.2	1061.8	1058.4
15°	1050.2	1048.0	1040.9	1048.0	1044.1
17.5°	1033.7	1030.9	1024.9	1030.9	1027.6
20°	1014.4	1011.2	1005.1	1011.2	1007.8
22.5°	991.3	988.6	983.1	988.6	984.2
25°	965.5	962.2	956.1	960.5	956.7
27.5°	935.8	931.4	925.9	929.2	927.0
30°	900.0	894.6	890.6	890.6	886.8
32.5°	861.0	857.1	850.6	846.6	841.7
35°	816.4	810.9	801.6	794.4	783.3
37.5°	768.6	762.0	750.4	732.2	717.4
40°	714.6	706.3	696.5	660.7	633.8
42.5°	656.9	655.2	638.2	577.1	539.7
45°	595.8	598.0	573.3	491.3	457.2
47.5°	534.1	541.9	496.8	416.4	398.9
50°	480.3	483.0	423.0	361.5	351.5
52.5°	424.8	420.3	360.9	317.9	310.8
55°	374.1	356.5	309.7	277.3	276.7
57.5°	329.5	297.0	264.6	240.4	243.2
60°	282.7	246.4	222.2	209.0	213.0
62.5°	241.5	206.8	185.4	181.5	188.1
65°	209.6	173.8	150.7	160.6	166.2
67.5°	179.4	149.1	122.6	146.3	148.5
70°	151.3	129.2	103.5	134.8	135.3
72.5°	128.2	114.4	89.6	122.2	123.8
75°	111.7	99.5	82.6	108.9	114.4
77.5°	97.9	85.2	76.5	94.1	103.5
80°	83.0	68.7	69.9	78.6	88.0
82.5°	63.9	53.4	55.5	64.9	71.5
85°	43.4	41.2	37.4	48.4	51.7
87.5°	23.1	22.1	19.3	27.5	25.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)