

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: P476320

Luminaire Tested: **14GR-LD5-50-A125-UNV-L830-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P476320
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-50-A125-UNV-L830-CD1-U
Description: GR 1'X4' LED TROFFER w/ A125 LENS
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4907.4 lumens
Efficiency: N/A
Efficacy: 119.7 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

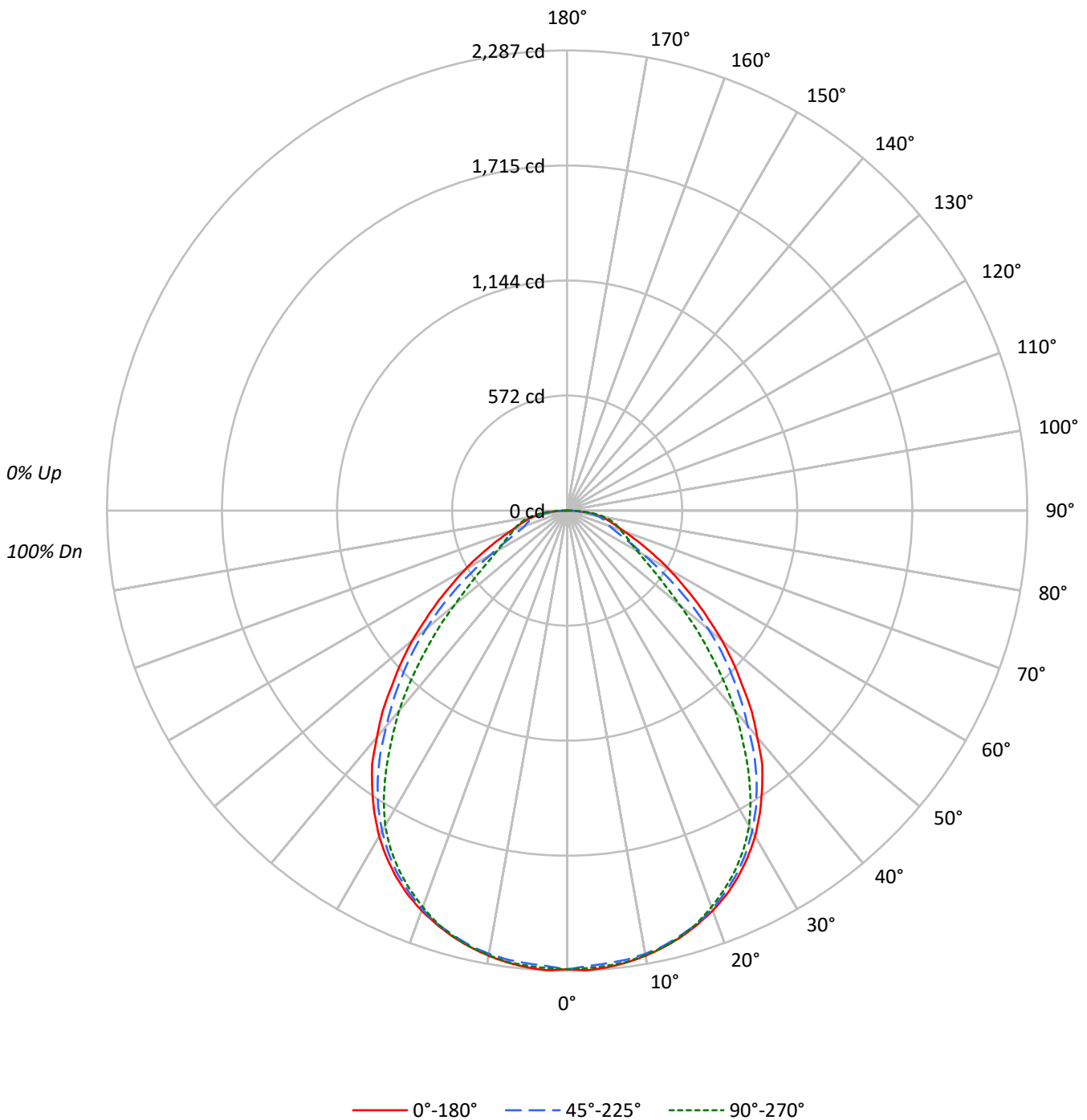
Input Watts (W): 41
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	6135	6135	6135
5°	6155	6103	6133
10°	6139	6111	6130
15°	6109	6087	6100
20°	6058	6035	6006
25°	5966	5919	5861
30°	5808	5716	5620
35°	5548	5395	5151
40°	5164	4904	4567
45°	4692	4410	3828
50°	4201	3829	3051
55°	3649	3125	2477
60°	3148	2363	2160
65°	2694	1888	2120
70°	2378	1758	2225
75°	2372	2016	2538
80°	2563	2351	2916
85°	2748	2501	3344



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	215.9	4.4
10°-20°	617.7	12.6
20°-30°	916.4	18.7
30°-40°	1017.7	20.7
40°-50°	877.7	17.9
50°-60°	595.2	12.1
60°-70°	344.2	7.0
70°-80°	224.7	4.6
80°-90°	98.0	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°	1750.0	35.7
0°-40°	2767.7	56.4
0°-60°	4240.6	86.4
0°-90°	4907.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4907.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2280	2280	2280	2280	2280	
5°	2279	2270	2259	2275	2271	216
15°	2193	2188	2185	2200	2190	618
25°	2009	2007	1994	1988	1974	924
35°	1689	1673	1642	1597	1568	1053
45°	1233	1213	1159	1063	1006	953
55°	778	762	666	567	528	699
65°	423	375	296	303	333	426
75°	228	206	194	217	244	243
85°	89	87	81	113	108	94
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2279.7	2279.7	2279.7	2279.7	2279.7
2.5°	2286.6	2278.6	2266.0	2279.7	2276.3
5°	2278.6	2269.5	2259.2	2275.2	2270.6
7.5°	2266.0	2256.9	2251.2	2264.9	2262.6
10°	2246.6	2239.8	2236.4	2253.5	2243.2
12.5°	2222.7	2217.0	2215.9	2229.5	2221.6
15°	2193.0	2188.5	2185.1	2199.9	2189.6
17.5°	2156.6	2154.3	2152.0	2158.8	2149.7
20°	2115.5	2113.2	2107.5	2108.7	2097.3
22.5°	2067.6	2065.3	2053.9	2051.6	2039.1
25°	2009.4	2007.2	1993.5	1987.8	1974.1
27.5°	1943.3	1944.4	1921.6	1911.4	1898.8
30°	1869.2	1864.6	1839.5	1822.4	1808.7
32.5°	1782.5	1776.8	1747.1	1719.8	1695.8
35°	1689.0	1673.0	1642.2	1596.6	1568.1
37.5°	1593.2	1571.5	1525.9	1467.7	1430.1
40°	1470.0	1447.2	1395.9	1329.7	1300.1
42.5°	1359.4	1335.4	1278.4	1200.9	1154.1
45°	1232.8	1213.4	1158.7	1062.9	1005.9
47.5°	1117.6	1097.1	1041.2	928.3	872.4
50°	1003.6	980.8	914.6	792.6	728.7
52.5°	885.0	872.4	791.5	669.4	618.1
55°	777.8	761.8	666.0	566.8	528.0
57.5°	675.1	648.9	545.1	471.0	456.2
60°	585.0	548.5	439.1	398.0	401.4
62.5°	499.5	456.2	360.4	341.0	360.4
65°	423.1	375.2	296.5	303.4	333.0
67.5°	355.8	310.2	252.0	279.4	304.5
70°	302.2	264.6	223.5	254.3	282.8
72.5°	258.9	233.8	209.8	233.8	264.6
75°	228.1	206.4	193.9	216.7	244.1
77.5°	199.6	182.5	176.8	195.0	217.8
80°	165.4	157.4	151.7	175.6	188.2
82.5°	127.7	124.3	119.7	149.4	155.1
85°	89.0	86.7	81.0	112.9	108.3
87.5°	46.8	44.5	41.1	59.3	53.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)