

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: P476329

Luminaire Tested: **14GR-LD5-50-A125-UNV-L835-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P476329
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-L835-CD1-U
Description: GR 1'X4' LED TROFFER w/ A125 LENS
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5085.4 lumens
Efficiency: N/A
Efficacy: 124.0 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

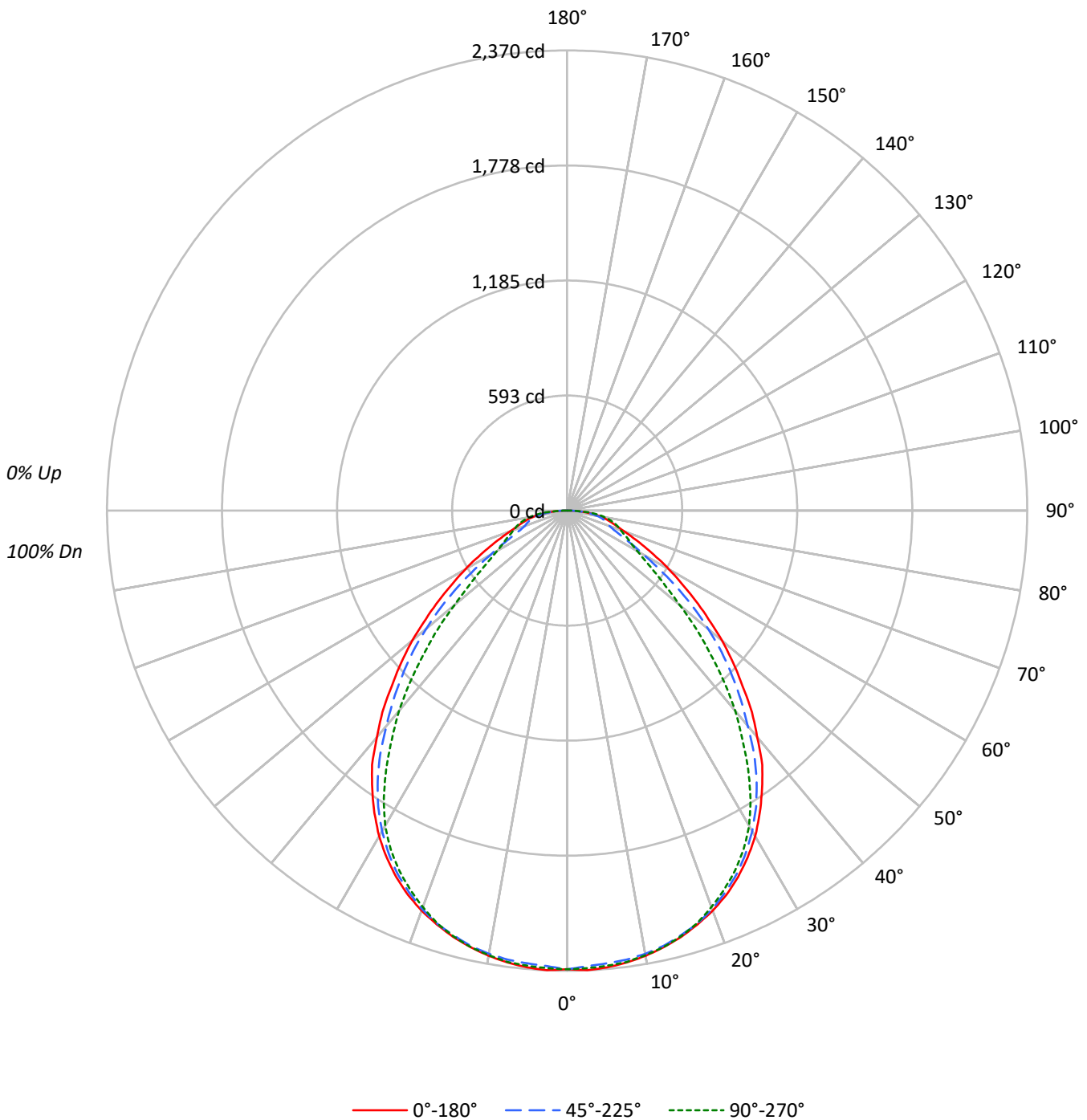
Input Watts (W): 41
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P476329

CATALOG NUMBER: 14GR-LD5-50-A125-UNV-L835-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P476329

CATALOG NUMBER: 14GR-LD5-50-A125-UNV-L835-CD1-U

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	73	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	48	59	52	47	58	51	47	56	51	46	44					44			
7	69	57	48	43	68	56	48	43	54	47	42	53	47	42	52	46	42	40					40			
8	65	52	44	39	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	40	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	32	30					30			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6357	6357	6357
5°	6378	6324	6356
10°	6362	6333	6352
15°	6331	6308	6321
20°	6278	6254	6224
25°	6183	6134	6074
30°	6019	5923	5824
35°	5750	5591	5338
40°	5351	5081	4732
45°	4862	4569	3967
50°	4354	3968	3162
55°	3781	3238	2567
60°	3263	2449	2239
65°	2791	1957	2197
70°	2464	1822	2306
75°	2458	2089	2629
80°	2656	2436	3022
85°	2847	2590	3467



TEST NUMBER: P476329

CATALOG NUMBER: 14GR-LD5-50-A125-UNV-L835-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	223.7	4.4
10°-20°	640.1	12.6
20°-30°	949.7	18.7
30°-40°	1054.6	20.7
40°-50°	909.6	17.9
50°-60°	616.8	12.1
60°-70°	356.7	7.0
70°-80°	232.8	4.6
80°-90°	101.5	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°	1813.4	35.7
0°-40°	2868.1	56.4
0°-60°	4394.4	86.4
0°-90°	5085.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5085.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2362	2362	2362	2362	2362	
5°	2361	2352	2341	2358	2353	224
15°	2273	2268	2264	2280	2269	641
25°	2082	2080	2066	2060	2046	957
35°	1750	1734	1702	1654	1625	1091
45°	1278	1257	1201	1101	1042	987
55°	806	789	690	587	547	724
65°	438	389	307	314	345	441
75°	236	214	201	224	253	252
85°	92	90	84	117	112	98
90°	0	0	0	0	0	



TEST NUMBER: P476329

CATALOG NUMBER: 14GR-LD5-50-A125-UNV-L835-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2362.4	2362.4	2362.4	2362.4	2362.4
2.5°	2369.5	2361.2	2348.2	2362.4	2358.9
5°	2361.2	2351.8	2341.1	2357.7	2353.0
7.5°	2348.2	2338.8	2332.9	2347.0	2344.7
10°	2328.1	2321.0	2317.5	2335.2	2324.6
12.5°	2303.3	2297.4	2296.2	2310.4	2302.1
15°	2272.6	2267.9	2264.3	2279.7	2269.0
17.5°	2234.8	2232.4	2230.0	2237.1	2227.7
20°	2192.2	2189.9	2184.0	2185.1	2173.3
22.5°	2142.6	2140.2	2128.4	2126.0	2113.0
25°	2082.3	2080.0	2065.8	2059.9	2045.7
27.5°	2013.8	2015.0	1991.3	1980.7	1967.7
30°	1937.0	1932.2	1906.2	1888.5	1874.3
32.5°	1847.1	1841.2	1810.5	1782.1	1757.3
35°	1750.2	1733.7	1701.8	1654.5	1625.0
37.5°	1651.0	1628.5	1581.2	1521.0	1482.0
40°	1523.3	1499.7	1446.5	1378.0	1347.2
42.5°	1408.7	1383.9	1324.8	1244.4	1196.0
45°	1277.5	1257.4	1200.7	1101.4	1042.3
47.5°	1158.2	1136.9	1079.0	962.0	904.1
50°	1040.0	1016.3	947.8	821.3	755.2
52.5°	917.1	904.1	820.2	693.7	640.5
55°	806.0	789.4	690.2	587.4	547.2
57.5°	699.6	672.4	564.9	488.1	472.7
60°	606.3	568.4	455.0	412.4	416.0
62.5°	517.6	472.7	373.4	353.4	373.4
65°	438.4	388.8	307.3	314.4	345.1
67.5°	368.7	321.4	261.2	289.5	315.5
70°	313.2	274.2	231.6	263.5	293.1
72.5°	268.3	242.3	217.5	242.3	274.2
75°	236.4	213.9	200.9	224.5	252.9
77.5°	206.8	189.1	183.2	202.1	225.7
80°	171.4	163.1	157.2	182.0	195.0
82.5°	132.4	128.8	124.1	154.8	160.7
85°	92.2	89.8	83.9	117.0	112.3
87.5°	48.5	46.1	42.5	61.5	55.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)