

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: P476237

Luminaire Tested: **14GR-LD5-40-F125-UNV-L850-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P476237
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-40-F125-UNV-L850-CD1-U
Description: GR 1'X4' LED TROFFER w/ F125 LENS
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4051.6 lumens
Efficiency: N/A
Efficacy: 129.4 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.13 / 1.23
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

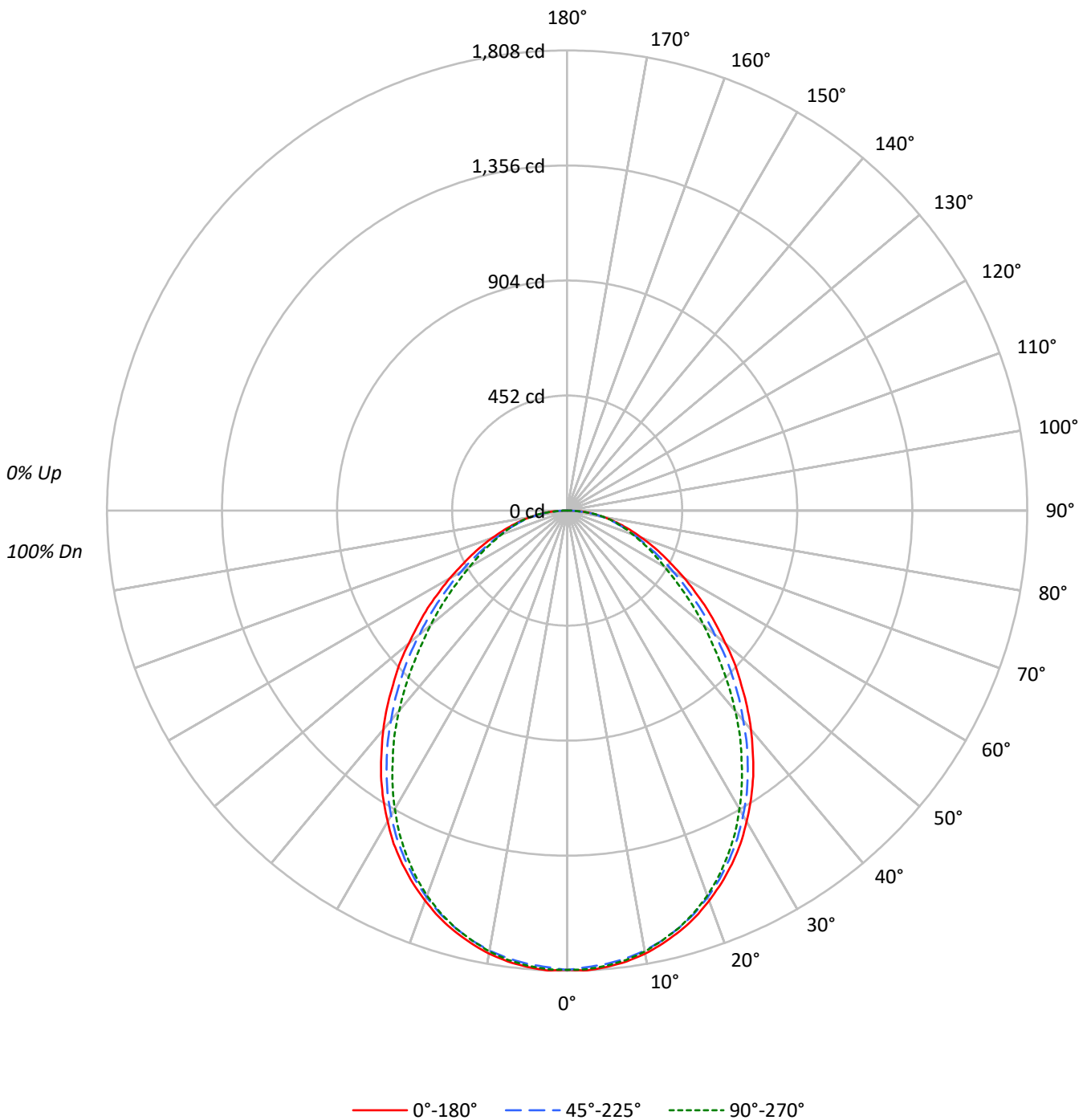
Input Watts (W): 31.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87					85				
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75					72				
3	92	82	74	68	90	81	73	68	78	72	67	75	70	65	72	68	64					62				
4	85	73	65	59	83	72	64	58	70	63	58	67	62	57	65	60	56					54				
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	50					47				
6	73	60	52	45	71	59	51	45	57	50	45	56	49	44	54	48	44					42				
7	68	55	46	41	66	54	46	40	52	45	40	51	45	40	50	44	40					38				
8	63	50	42	36	62	50	42	36	48	41	36	47	41	36	46	40	36					34				
9	59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	33					31				
10	56	43	35	30	54	42	35	30	41	35	30	40	34	30	40	34	30					28				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4856	4856	4856
5°	4862	4830	4847
10°	4830	4797	4807
15°	4767	4728	4728
20°	4672	4627	4611
25°	4549	4483	4436
30°	4383	4297	4208
35°	4187	4065	3925
40°	3949	3783	3608
45°	3683	3492	3256
50°	3403	3166	2930
55°	3140	2870	2635
60°	2863	2594	2379
65°	2632	2355	2248
70°	2443	2202	2159
75°	2332	2140	2178
80°	2284	2154	2269
85°	2347	2118	2260



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.3	4.2
10°-20°	479.3	11.8
20°-30°	695.3	17.2
30°-40°	771.9	19.1
40°-50°	706.2	17.4
50°-60°	550.2	13.6
60°-70°	375.9	9.3
70°-80°	224.5	5.5
80°-90°	78.1	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°	1344.8	33.2
0°-40°	2116.7	52.2
0°-60°	3373.1	83.3
0°-90°	4051.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4051.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1805	1805	1805	1805	1805	
5°	1800	1796	1788	1797	1794	171
15°	1711	1706	1697	1704	1697	482
25°	1532	1526	1510	1505	1494	704
35°	1274	1263	1237	1211	1195	795
45°	968	955	918	875	856	747
55°	669	649	612	576	562	598
65°	413	398	370	353	353	412
75°	224	215	206	210	210	238
85°	76	72	69	75	73	82
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1804.7	1804.7	1804.7	1804.7	1804.7
2.5°	1808.4	1803.7	1795.4	1804.7	1803.7
5°	1800.0	1796.3	1788.0	1797.2	1794.5
7.5°	1787.0	1783.3	1774.1	1784.3	1780.6
10°	1767.6	1762.9	1755.5	1762.9	1759.2
12.5°	1741.6	1737.0	1729.6	1736.1	1729.6
15°	1711.0	1706.4	1697.1	1703.6	1697.1
17.5°	1674.9	1668.4	1661.0	1661.9	1656.4
20°	1631.3	1624.8	1615.6	1615.6	1610.0
22.5°	1584.1	1577.6	1566.4	1562.7	1555.3
25°	1532.2	1525.7	1509.9	1505.3	1494.1
27.5°	1475.6	1465.4	1449.7	1439.5	1428.3
30°	1410.7	1402.4	1382.9	1368.1	1354.2
32.5°	1344.9	1336.6	1314.3	1292.1	1277.3
35°	1274.5	1263.4	1237.4	1211.4	1194.8
37.5°	1198.5	1189.2	1159.5	1128.0	1115.0
40°	1124.3	1112.3	1077.0	1044.6	1027.0
42.5°	1046.5	1033.5	998.3	961.2	941.7
45°	967.7	954.7	917.6	875.0	855.5
47.5°	894.4	877.8	838.8	796.2	773.0
50°	812.9	799.0	756.3	715.6	699.8
52.5°	736.9	723.9	684.0	644.2	629.4
55°	669.2	648.8	611.7	575.6	561.7
57.5°	596.9	580.2	545.0	510.7	496.8
60°	532.0	519.1	482.0	452.3	442.1
62.5°	468.1	457.9	423.6	401.3	394.9
65°	413.4	397.6	369.8	353.1	353.1
67.5°	361.5	345.7	321.6	315.1	309.6
70°	310.5	298.5	279.9	274.4	274.4
72.5°	265.1	254.9	241.9	240.1	243.8
75°	224.3	215.0	205.8	209.5	209.5
77.5°	183.5	177.0	173.3	175.2	178.9
80°	147.4	142.7	139.0	143.7	146.4
82.5°	113.1	108.4	105.7	112.2	111.2
85°	76.0	72.3	68.6	75.1	73.2
87.5°	38.0	36.1	29.7	33.4	28.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)