

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: P476221

Luminaire Tested: **14GR-LD5-50-F125-UNV-L835-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P476221
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-50-F125-UNV-L835-CD1-U
Description: GR 1'X4' LED TROFFER w/ F125 LENS
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5065.2 lumens
Efficiency: N/A
Efficacy: 123.5 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

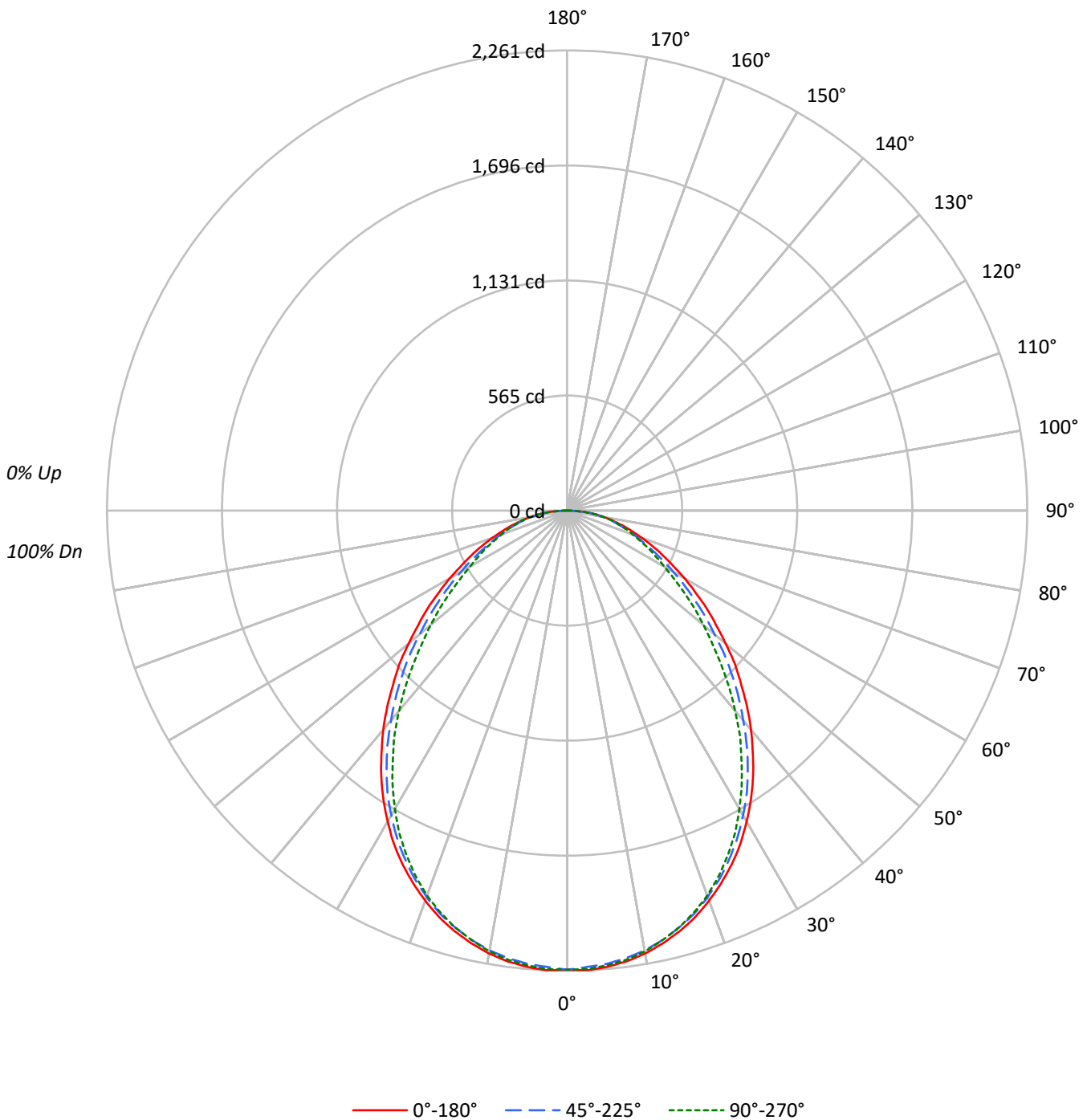
Input Watts (W): 41
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	6071	6071	6071
5°	6079	6038	6060
10°	6038	5997	6010
15°	5959	5911	5911
20°	5840	5784	5764
25°	5687	5605	5546
30°	5480	5372	5261
35°	5234	5082	4907
40°	4938	4730	4510
45°	4604	4366	4070
50°	4254	3959	3663
55°	3925	3588	3294
60°	3580	3243	2975
65°	3291	2944	2811
70°	3054	2753	2699
75°	2915	2674	2723
80°	2854	2693	2837
85°	2933	2646	2825



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.9	4.2
10°-20°	599.2	11.8
20°-30°	869.2	17.2
30°-40°	965.1	19.1
40°-50°	882.9	17.4
50°-60°	687.8	13.6
60°-70°	469.9	9.3
70°-80°	280.7	5.5
80°-90°	97.6	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°	1681.2	33.2
0°-40°	2646.3	52.2
0°-60°	4217.0	83.3
0°-90°	5065.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5065.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2256	2256	2256	2256	2256	
5°	2250	2246	2235	2247	2243	214
15°	2139	2133	2122	2130	2122	602
25°	1916	1907	1888	1882	1868	881
35°	1593	1579	1547	1514	1494	994
45°	1210	1194	1147	1094	1070	934
55°	837	811	765	720	702	747
65°	517	497	462	442	442	515
75°	280	269	257	262	262	297
85°	95	90	86	94	92	102
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2256.1	2256.1	2256.1	2256.1	2256.1
2.5°	2260.8	2255.0	2244.5	2256.1	2255.0
5°	2250.3	2245.7	2235.3	2246.9	2243.4
7.5°	2234.1	2229.5	2217.9	2230.6	2226.0
10°	2209.8	2204.0	2194.7	2204.0	2199.4
12.5°	2177.3	2171.5	2162.3	2170.4	2162.3
15°	2139.1	2133.3	2121.7	2129.8	2121.7
17.5°	2093.9	2085.8	2076.5	2077.7	2070.7
20°	2039.4	2031.3	2019.7	2019.7	2012.8
22.5°	1980.3	1972.2	1958.3	1953.7	1944.4
25°	1915.5	1907.3	1887.6	1881.8	1867.9
27.5°	1844.8	1832.0	1812.3	1799.6	1785.7
30°	1763.7	1753.2	1728.9	1710.4	1693.0
32.5°	1681.4	1671.0	1643.1	1615.3	1596.8
35°	1593.3	1579.4	1547.0	1514.5	1493.7
37.5°	1498.3	1486.7	1449.6	1410.2	1394.0
40°	1405.6	1390.5	1346.5	1305.9	1283.9
42.5°	1308.3	1292.0	1248.0	1201.6	1177.3
45°	1209.8	1193.5	1147.2	1093.9	1069.5
47.5°	1118.2	1097.4	1048.7	995.4	966.4
50°	1016.2	998.9	945.6	894.6	874.9
52.5°	921.2	905.0	855.2	805.3	786.8
55°	836.6	811.1	764.8	719.6	702.2
57.5°	746.3	725.4	681.4	638.5	621.1
60°	665.1	648.9	602.6	565.5	552.7
62.5°	585.2	572.4	529.6	501.7	493.6
65°	516.8	497.1	462.4	441.5	441.5
67.5°	451.9	432.2	402.1	394.0	387.0
70°	388.2	373.1	349.9	343.0	343.0
72.5°	331.4	318.7	302.4	300.1	304.8
75°	280.4	268.8	257.2	261.9	261.9
77.5°	229.4	221.3	216.7	219.0	223.6
80°	184.2	178.5	173.8	179.6	183.1
82.5°	141.4	135.6	132.1	140.2	139.1
85°	95.0	90.4	85.7	93.9	91.5
87.5°	47.5	45.2	37.1	41.7	35.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)