

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: P476217

Luminaire Tested: **14GR-LD5-32-F125-UNV-L835-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P476217
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-32-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: 3252.1 lumens
Efficiency: N/A
Efficacy: 130.1 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

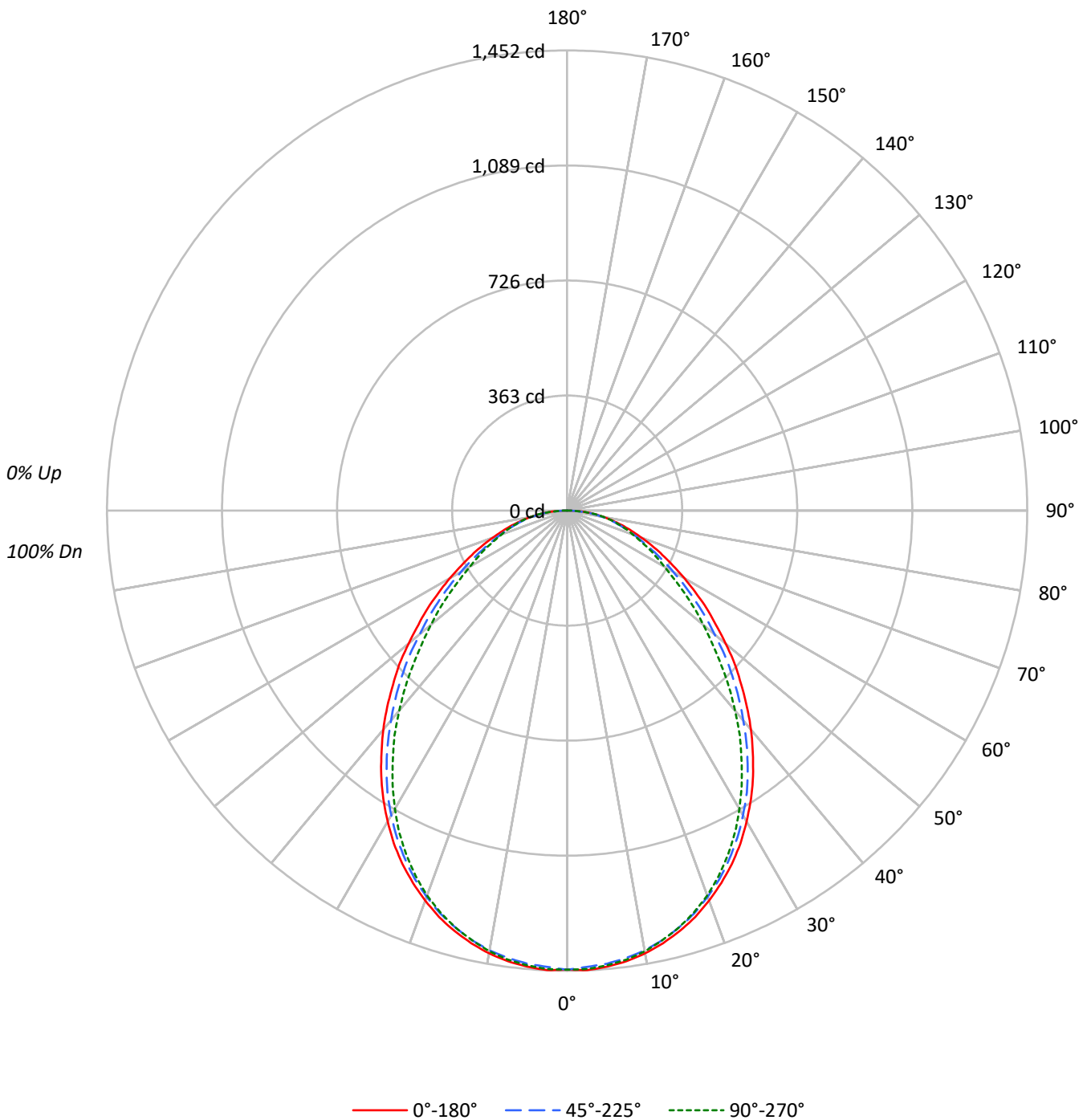
Input Watts (W): 25
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3898	3898	3898
5°	3903	3877	3891
10°	3877	3850	3859
15°	3826	3795	3795
20°	3750	3714	3701
25°	3651	3599	3561
30°	3519	3449	3378
35°	3361	3263	3150
40°	3170	3037	2896
45°	2956	2803	2613
50°	2732	2542	2352
55°	2520	2304	2115
60°	2299	2082	1910
65°	2113	1890	1805
70°	1961	1768	1733
75°	1871	1718	1748
80°	1833	1729	1822
85°	1883	1701	1815



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.7	4.2
10°-20°	384.7	11.8
20°-30°	558.1	17.2
30°-40°	619.6	19.1
40°-50°	566.9	17.4
50°-60°	441.6	13.6
60°-70°	301.7	9.3
70°-80°	180.2	5.5
80°-90°	62.7	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°	1079.4	33.2
0°-40°	1699.0	52.2
0°-60°	2707.5	83.3
0°-90°	3252.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3252.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1449	1449	1449	1449	1449	
5°	1445	1442	1435	1443	1440	137
15°	1373	1370	1362	1368	1362	387
25°	1230	1225	1212	1208	1199	565
35°	1023	1014	993	972	959	638
45°	777	766	737	702	687	600
55°	537	521	491	462	451	480
65°	332	319	297	284	284	330
75°	180	173	165	168	168	191
85°	61	58	55	60	59	66
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1448.6	1448.6	1448.6	1448.6	1448.6
2.5°	1451.5	1447.8	1441.1	1448.6	1447.8
5°	1444.8	1441.9	1435.2	1442.6	1440.4
7.5°	1434.4	1431.4	1424.0	1432.2	1429.2
10°	1418.8	1415.1	1409.1	1415.1	1412.1
12.5°	1398.0	1394.2	1388.3	1393.5	1388.3
15°	1373.4	1369.7	1362.3	1367.5	1362.3
17.5°	1344.4	1339.2	1333.2	1334.0	1329.5
20°	1309.4	1304.2	1296.8	1296.8	1292.3
22.5°	1271.5	1266.3	1257.4	1254.4	1248.4
25°	1229.8	1224.6	1212.0	1208.2	1199.3
27.5°	1184.4	1176.3	1163.6	1155.4	1146.5
30°	1132.4	1125.7	1110.0	1098.1	1087.0
32.5°	1079.5	1072.8	1055.0	1037.1	1025.2
35°	1023.0	1014.1	993.2	972.4	959.0
37.5°	962.0	954.5	930.7	905.4	895.0
40°	902.5	892.8	864.5	838.5	824.3
42.5°	840.0	829.6	801.3	771.5	755.9
45°	776.7	766.3	736.6	702.3	686.7
47.5°	718.0	704.6	673.3	639.1	620.5
50°	652.5	641.3	607.1	574.4	561.7
52.5°	591.5	581.1	549.1	517.1	505.2
55°	537.2	520.8	491.0	462.0	450.9
57.5°	479.1	465.7	437.5	409.9	398.8
60°	427.1	416.6	386.9	363.1	354.9
62.5°	375.7	367.5	340.0	322.1	316.9
65°	331.8	319.2	296.9	283.5	283.5
67.5°	290.2	277.5	258.2	253.0	248.5
70°	249.2	239.6	224.7	220.2	220.2
72.5°	212.8	204.6	194.2	192.7	195.7
75°	180.0	172.6	165.2	168.1	168.1
77.5°	147.3	142.1	139.1	140.6	143.6
80°	118.3	114.6	111.6	115.3	117.6
82.5°	90.8	87.0	84.8	90.0	89.3
85°	61.0	58.0	55.1	60.3	58.8
87.5°	30.5	29.0	23.8	26.8	23.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)