

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: P476280

Luminaire Tested: **14GR-LD5-32-A-UNV-L830-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P476280
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-32-A-UNV-L830-CD1-U
Description: GR 1'X4' LED TROFFER w/ A LENS
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3044.0 lumens
Efficiency: N/A
Efficacy: 121.8 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.21 / 1.26
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

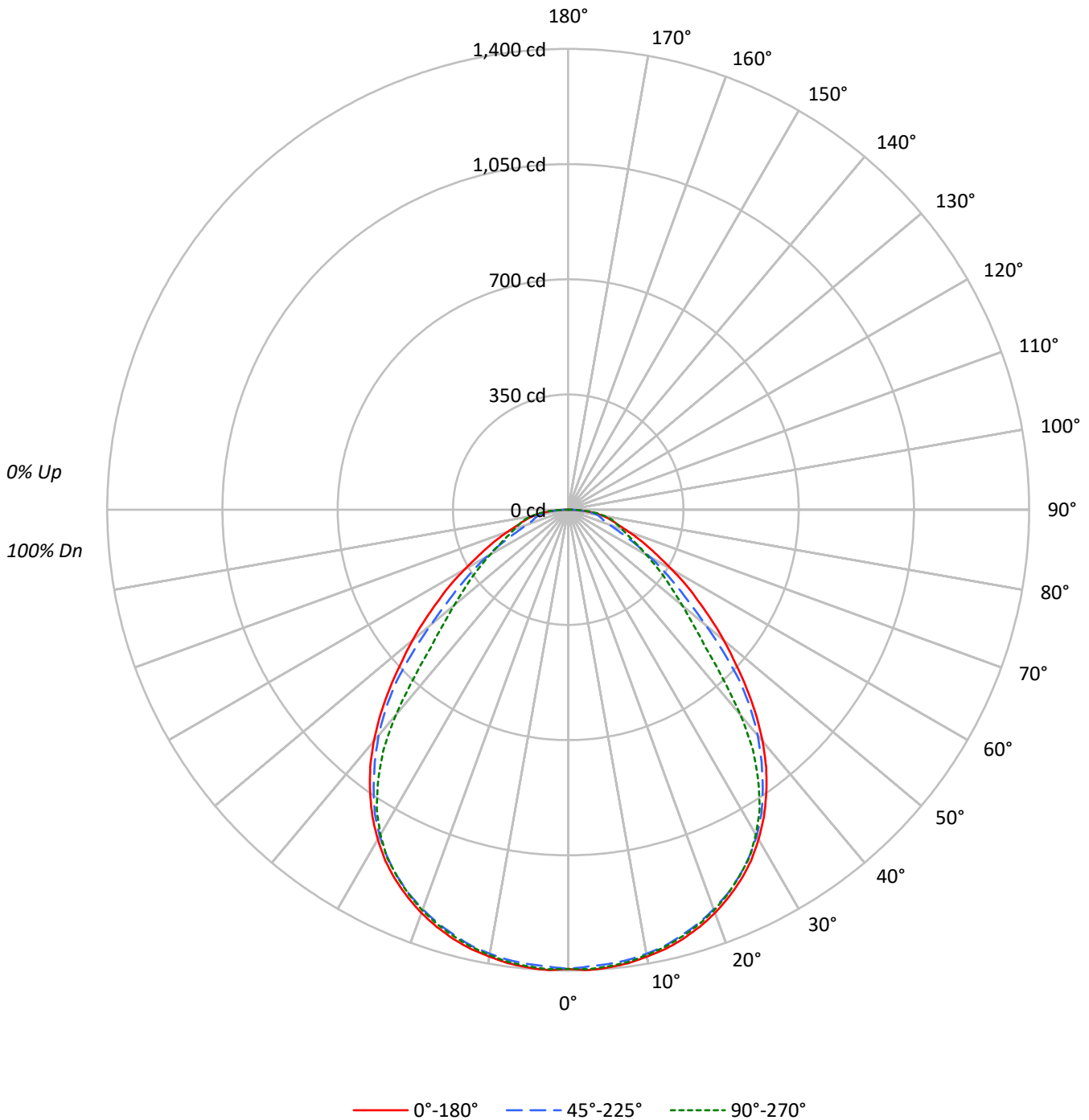
Input Watts (W): 25
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	74	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	47	59	52	47	58	51	47	56	51	46	44					44			
7	69	57	48	43	67	56	48	43	54	47	42	53	47	42	52	46	42	40					40			
8	65	52	44	38	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	39	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	31	30					30			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4701	4701	4701
5°	4723	4687	4711
10°	4717	4688	4700
15°	4708	4666	4681
20°	4675	4632	4644
25°	4613	4568	4571
30°	4500	4453	4434
35°	4316	4238	4141
40°	4040	3937	3583
45°	3649	3511	2800
50°	3236	2850	2368
55°	2824	2339	2089
60°	2448	1925	1845
65°	2148	1544	1703
70°	1915	1310	1713
75°	1868	1381	1915
80°	2070	1743	2195
85°	2157	1860	2571



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.4	4.3
10°-20°	379.1	12.5
20°-30°	567.2	18.6
30°-40°	640.2	21.0
40°-50°	543.1	17.8
50°-60°	367.5	12.1
60°-70°	219.3	7.2
70°-80°	137.4	4.5
80°-90°	57.8	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°	1078.7	35.4
0°-40°	1718.9	56.5
0°-60°	2629.5	86.4
0°-90°	3044.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3044.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1395	1395	1395	1395	1395	
5°	1396	1392	1386	1396	1393	133
15°	1350	1347	1338	1347	1342	381
25°	1241	1237	1229	1234	1230	571
35°	1049	1042	1030	1021	1007	654
45°	766	768	737	631	588	590
55°	481	458	398	356	356	433
65°	269	223	194	206	214	269
75°	144	128	106	140	147	154
85°	56	53	48	62	66	60
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1395.0	1395.0	1395.0	1395.0	1395.0
2.5°	1399.9	1395.6	1389.2	1397.8	1397.1
5°	1396.3	1392.2	1385.8	1395.6	1392.7
7.5°	1389.9	1386.4	1380.1	1389.2	1386.4
10°	1378.6	1375.8	1370.2	1377.9	1373.7
12.5°	1366.6	1364.5	1357.4	1364.5	1360.2
15°	1349.7	1346.9	1337.7	1346.9	1341.8
17.5°	1328.5	1324.9	1317.2	1324.9	1320.6
20°	1303.7	1299.5	1291.7	1299.5	1295.2
22.5°	1274.0	1270.5	1263.5	1270.5	1264.8
25°	1240.8	1236.6	1228.7	1234.4	1229.5
27.5°	1202.6	1197.0	1189.9	1194.2	1191.3
30°	1156.6	1149.6	1144.6	1144.6	1139.7
32.5°	1106.4	1101.6	1093.1	1088.0	1081.7
35°	1049.2	1042.2	1030.2	1021.0	1006.7
37.5°	987.7	979.3	964.4	941.0	922.0
40°	918.4	907.7	895.1	849.1	814.5
42.5°	844.2	842.0	820.2	741.6	693.6
45°	765.7	768.5	736.7	631.4	587.6
47.5°	686.4	696.4	638.5	535.2	512.6
50°	617.3	620.7	543.7	464.5	451.8
52.5°	545.9	540.1	463.8	408.6	399.4
55°	480.7	458.2	398.1	356.3	355.6
57.5°	423.4	381.7	340.0	309.0	312.6
60°	363.3	316.7	285.6	268.6	273.7
62.5°	310.3	265.8	238.2	233.3	241.8
65°	269.4	223.4	193.7	206.4	213.6
67.5°	230.5	191.6	157.6	188.0	190.9
70°	194.4	166.1	133.0	173.2	173.9
72.5°	164.7	147.1	115.2	157.0	159.1
75°	143.5	127.9	106.1	140.0	147.1
77.5°	125.9	109.5	98.3	121.0	133.0
80°	106.7	88.3	89.8	101.1	113.1
82.5°	82.1	68.6	71.4	83.4	91.9
85°	55.8	53.0	48.1	62.2	66.5
87.5°	29.7	28.3	24.8	35.3	33.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)