

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: P476288

Luminaire Tested: **14GR-LD5-28-A-UNV-L835-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P476288
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-28-A-UNV-L835-CD1-U
Description: GR 1'X4' LED TROFFER w/ A LENS
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2738.3 lumens
Efficiency: N/A
Efficacy: 117.5 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

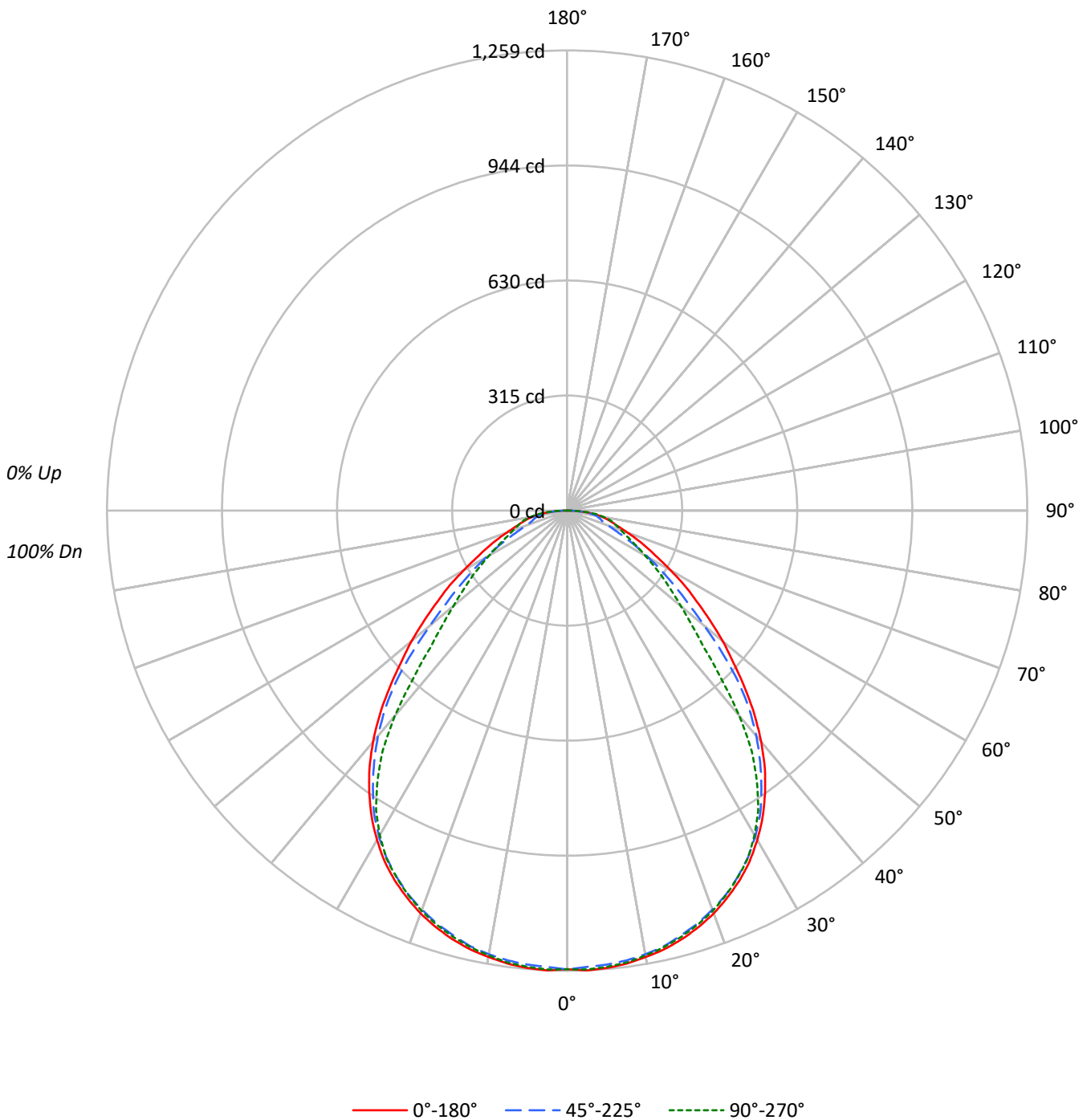
Input Watts (W): 23.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	94	88	83	99	92	86	82	88	84	80	85	81	78	82	79	76	74
3	93	84	76	71	91	82	75	70	79	74	69	77	72	68	74	70	66	64
4	86	75	67	61	84	74	67	61	72	65	60	69	64	59	67	62	58	56
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46	44
7	69	57	48	43	67	56	48	43	54	47	42	53	47	42	52	46	42	40
8	65	52	44	38	63	51	44	38	50	43	38	49	43	38	48	42	38	36
9	61	48	40	35	59	47	40	35	46	39	35	45	39	35	44	39	34	33
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	36	31	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4228	4228	4228
5°	4249	4217	4238
10°	4243	4217	4228
15°	4235	4198	4211
20°	4205	4166	4178
25°	4150	4109	4112
30°	4048	4006	3989
35°	3882	3812	3725
40°	3634	3542	3223
45°	3282	3158	2519
50°	2911	2564	2130
55°	2540	2104	1879
60°	2202	1731	1659
65°	1932	1389	1532
70°	1723	1178	1542
75°	1681	1243	1722
80°	1863	1568	1973
85°	1941	1674	2312



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.1	4.3
10°-20°	341.1	12.5
20°-30°	510.2	18.6
30°-40°	575.9	21.0
40°-50°	488.6	17.8
50°-60°	330.6	12.1
60°-70°	197.3	7.2
70°-80°	123.6	4.5
80°-90°	52.0	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°	970.3	35.4
0°-40°	1546.3	56.5
0°-60°	2365.4	86.4
0°-90°	2738.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2738.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1255	1255	1255	1255	1255	
5°	1256	1252	1247	1255	1253	119
15°	1214	1212	1203	1212	1207	342
25°	1116	1112	1105	1110	1106	513
35°	944	938	927	918	906	588
45°	689	691	663	568	529	531
55°	432	412	358	321	320	390
65°	242	201	174	186	192	242
75°	129	115	96	126	132	139
85°	50	48	43	56	60	54
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1254.9	1254.9	1254.9	1254.9	1254.9
2.5°	1259.3	1255.4	1249.7	1257.4	1256.7
5°	1256.1	1252.3	1246.6	1255.4	1252.9
7.5°	1250.3	1247.1	1241.5	1249.7	1247.1
10°	1240.2	1237.6	1232.6	1239.5	1235.8
12.5°	1229.4	1227.5	1221.1	1227.5	1223.6
15°	1214.1	1211.6	1203.3	1211.6	1207.1
17.5°	1195.1	1191.9	1184.9	1191.9	1188.0
20°	1172.8	1169.0	1161.9	1169.0	1165.2
22.5°	1146.1	1142.9	1136.6	1142.9	1137.8
25°	1116.2	1112.4	1105.3	1110.4	1106.0
27.5°	1081.8	1076.8	1070.4	1074.2	1071.7
30°	1040.5	1034.2	1029.6	1029.6	1025.2
32.5°	995.3	990.9	983.3	978.8	973.0
35°	943.8	937.5	926.7	918.4	905.6
37.5°	888.5	880.9	867.6	846.5	829.4
40°	826.2	816.6	805.2	763.8	732.7
42.5°	759.4	757.4	737.8	667.2	623.9
45°	688.8	691.3	662.7	568.0	528.6
47.5°	617.5	626.4	574.4	481.4	461.1
50°	555.3	558.3	489.1	417.9	406.4
52.5°	491.1	485.8	417.2	367.6	359.3
55°	432.4	412.1	358.1	320.6	319.9
57.5°	380.9	343.4	305.9	278.0	281.2
60°	326.8	284.9	256.9	241.7	246.2
62.5°	279.2	239.1	214.3	209.9	217.5
65°	242.3	200.9	174.2	185.7	192.1
67.5°	207.3	172.4	141.8	169.2	171.7
70°	174.9	149.4	119.6	155.8	156.5
72.5°	148.2	132.3	103.6	141.3	143.1
75°	129.1	115.1	95.5	125.9	132.3
77.5°	113.2	98.5	88.4	108.8	119.6
80°	96.0	79.4	80.8	90.9	101.7
82.5°	73.8	61.7	64.2	75.0	82.6
85°	50.2	47.7	43.3	55.9	59.8
87.5°	26.7	25.5	22.3	31.8	29.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)