

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: P476279

Luminaire Tested: **14GR-LD5-28-A-UNV-L830-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P476279
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-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: 2642.5 lumens
Efficiency: N/A
Efficacy: 113.4 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

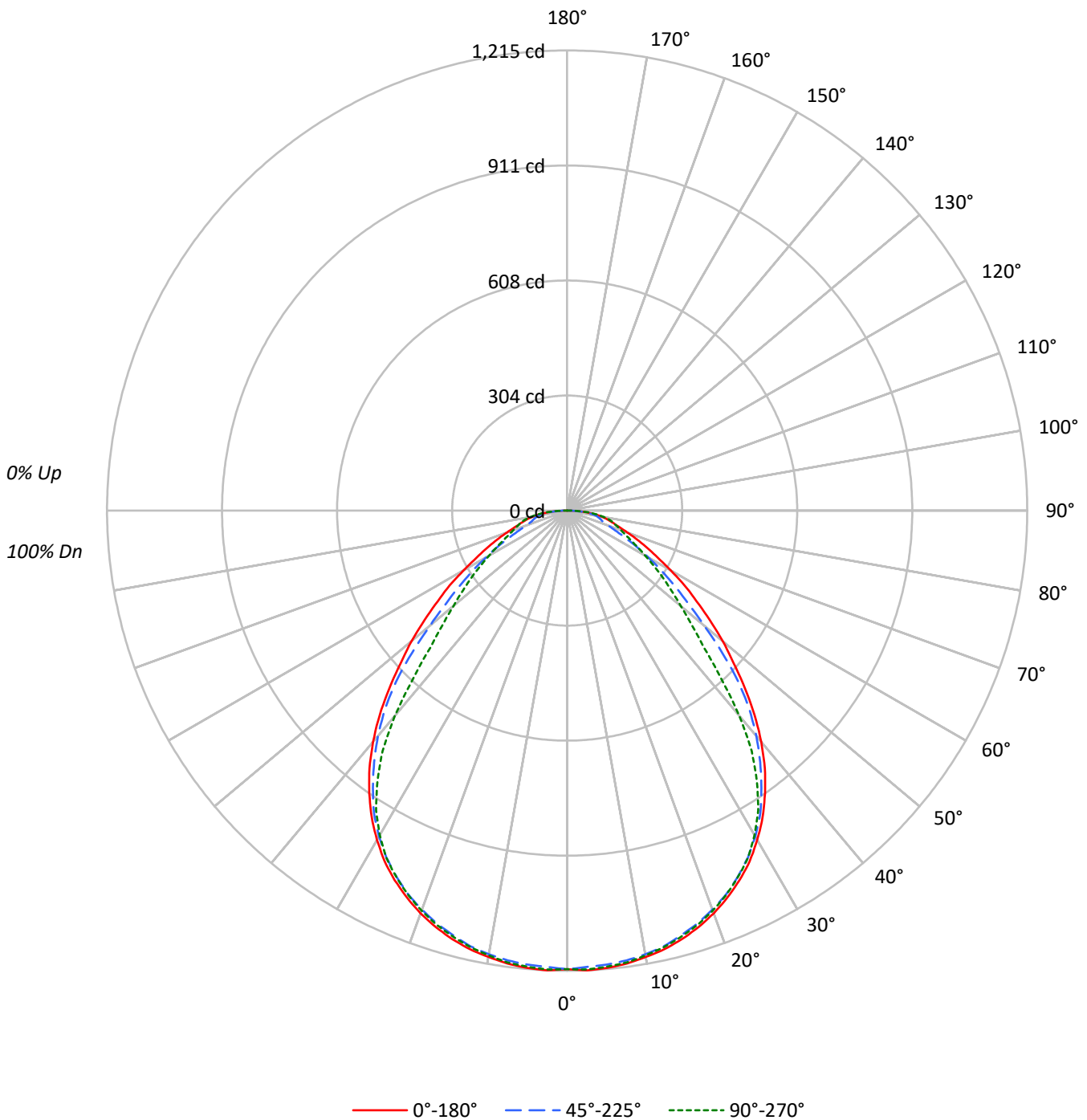
Input Watts (W): 23.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	4080	4080	4080
5°	4100	4069	4089
10°	4095	4070	4080
15°	4087	4051	4063
20°	4058	4021	4032
25°	4005	3966	3968
30°	3906	3866	3849
35°	3747	3679	3595
40°	3507	3418	3110
45°	3167	3048	2431
50°	2809	2474	2056
55°	2452	2030	1814
60°	2126	1671	1601
65°	1864	1340	1478
70°	1663	1137	1488
75°	1622	1199	1663
80°	1797	1512	1906
85°	1871	1612	2231



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.9	4.3
10°-20°	329.1	12.5
20°-30°	492.3	18.6
30°-40°	555.8	21.0
40°-50°	471.5	17.8
50°-60°	319.0	12.1
60°-70°	190.4	7.2
70°-80°	119.3	4.5
80°-90°	50.2	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°	936.4	35.4
0°-40°	1492.1	56.5
0°-60°	2282.6	86.4
0°-90°	2642.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2642.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1211	1211	1211	1211	1211	
5°	1212	1208	1203	1212	1209	115
15°	1172	1169	1161	1169	1165	330
25°	1077	1074	1067	1072	1067	495
35°	911	905	894	886	874	567
45°	665	667	640	548	510	512
55°	417	398	346	309	309	376
65°	234	194	168	179	185	234
75°	125	111	92	122	128	134
85°	48	46	42	54	58	52
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1210.9	1210.9	1210.9	1210.9	1210.9
2.5°	1215.2	1211.5	1205.9	1213.4	1212.8
5°	1212.1	1208.5	1203.0	1211.5	1209.0
7.5°	1206.6	1203.5	1198.1	1205.9	1203.5
10°	1196.8	1194.3	1189.4	1196.1	1192.5
12.5°	1186.3	1184.5	1178.4	1184.5	1180.8
15°	1171.7	1169.2	1161.2	1169.2	1164.8
17.5°	1153.2	1150.1	1143.4	1150.1	1146.4
20°	1131.7	1128.1	1121.3	1128.1	1124.4
22.5°	1105.9	1102.9	1096.8	1102.9	1098.0
25°	1077.1	1073.5	1066.7	1071.5	1067.3
27.5°	1044.0	1039.1	1032.9	1036.6	1034.2
30°	1004.0	998.0	993.6	993.6	989.3
32.5°	960.5	956.2	948.9	944.5	939.0
35°	910.8	904.7	894.3	886.3	873.9
37.5°	857.4	850.1	837.2	816.8	800.3
40°	797.3	788.0	777.0	737.1	707.1
42.5°	732.8	730.9	712.0	643.8	602.1
45°	664.7	667.1	639.6	548.1	510.1
47.5°	595.9	604.5	554.3	464.6	445.0
50°	535.8	538.8	471.9	403.3	392.2
52.5°	473.9	468.8	402.6	354.7	346.7
55°	417.3	397.7	345.5	309.3	308.7
57.5°	367.6	331.4	295.2	268.2	271.3
60°	315.4	274.9	247.9	233.2	237.6
62.5°	269.4	230.7	206.8	202.5	209.9
65°	233.8	193.9	168.1	179.2	185.4
67.5°	200.1	166.3	136.8	163.2	165.7
70°	168.8	144.2	115.4	150.4	151.0
72.5°	143.0	127.7	100.0	136.3	138.1
75°	124.6	111.1	92.1	121.5	127.7
77.5°	109.3	95.1	85.3	105.0	115.4
80°	92.6	76.7	77.9	87.7	98.2
82.5°	71.2	59.5	62.0	72.4	79.8
85°	48.4	46.0	41.7	54.0	57.7
87.5°	25.8	24.6	21.5	30.7	28.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)