

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: P290891

Luminaire Tested: **14GR-LD5-20-F125-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290891
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33313)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-20-F125-UNV-L92765-W2A1-U-5000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1905.0 lumens
Efficiency: N/A
Efficacy: 119.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.16 / 1.24
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

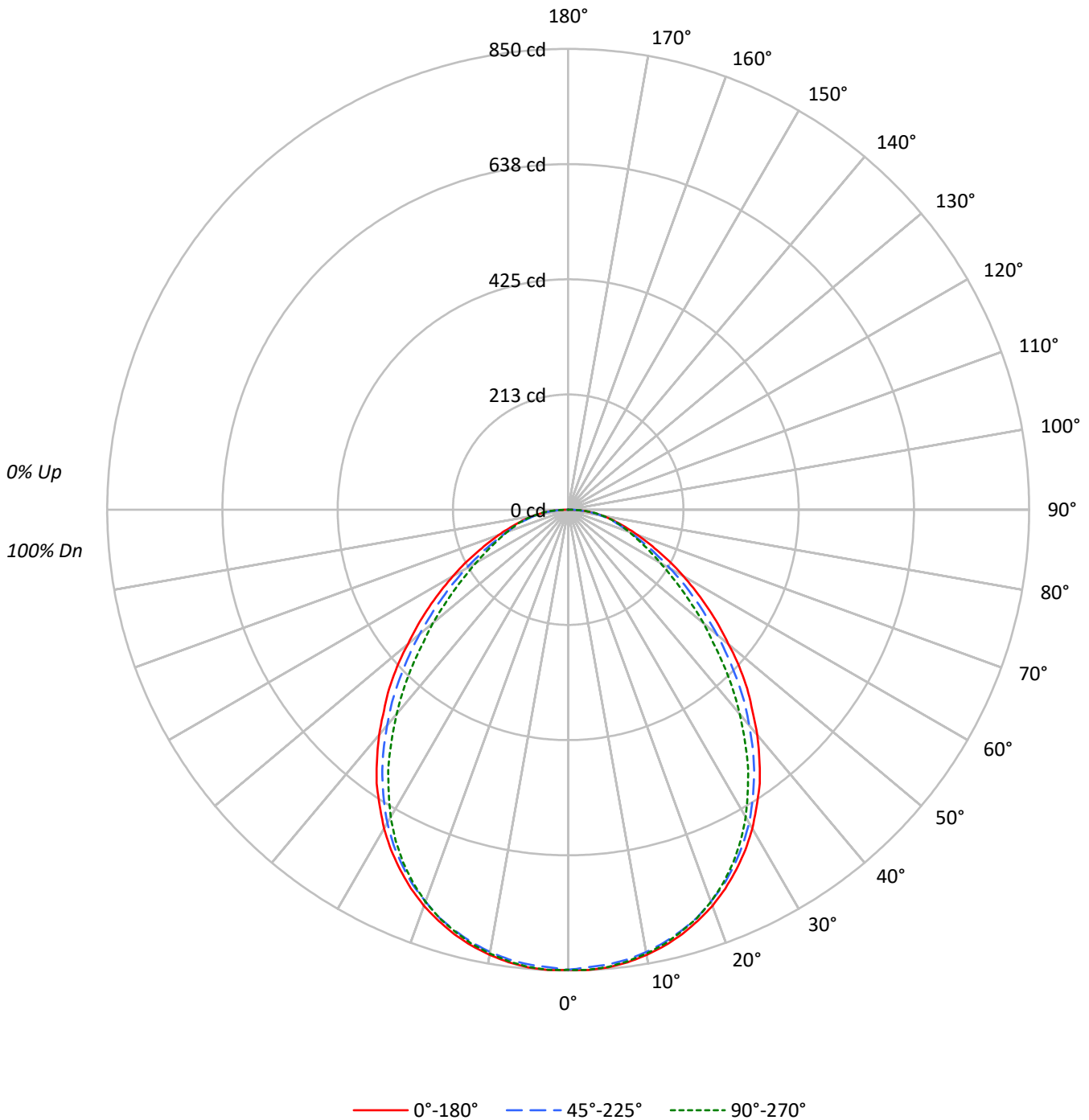
Input Watts (W): 15.903
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	88					85				
2	101	93	87	81	98	91	85	80	88	83	78	84	80	77	81	78	75					73				
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65					63				
4	85	74	66	59	83	73	65	59	70	64	58	68	62	58	66	61	57					55				
5	79	67	58	52	77	66	58	52	64	57	51	62	55	51	60	54	50					48				
6	73	60	52	46	71	60	52	46	58	51	45	56	50	45	55	49	45					43				
7	68	55	47	41	66	54	47	41	53	46	41	51	45	40	50	44	40					38				
8	64	51	43	37	62	50	42	37	49	42	37	47	41	36	46	41	36					34				
9	60	47	39	34	58	46	39	33	45	38	33	44	38	33	43	37	33					31				
10	56	43	36	31	55	43	35	31	42	35	30	41	35	30	40	34	30					28				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2284	2284	2284
5°	2289	2274	2286
10°	2279	2264	2271
15°	2259	2241	2245
20°	2227	2202	2204
25°	2176	2149	2135
30°	2109	2073	2034
35°	2023	1964	1899
40°	1905	1824	1728
45°	1776	1669	1545
50°	1616	1497	1365
55°	1470	1328	1189
60°	1319	1169	1056
65°	1176	1042	971
70°	1069	950	939
75°	999	925	972
80°	1004	956	1012
85°	1050	979	1118



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.3	4.2
10°-20°	227.5	11.9
20°-30°	333.6	17.5
30°-40°	372.3	19.5
40°-50°	337.1	17.7
50°-60°	254.5	13.4
60°-70°	166.4	8.7
70°-80°	97.7	5.1
80°-90°	35.8	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°	641.3	33.7
0°-40°	1013.6	53.2
0°-60°	1605.2	84.3
0°-90°	1905.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1905.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	849	849	849	849	849	
5°	847	846	842	847	846	80
15°	811	809	804	809	806	228
25°	733	730	724	723	719	337
35°	616	610	598	584	578	383
45°	467	460	439	415	406	359
55°	313	306	283	261	254	280
65°	185	179	164	154	152	185
75°	96	94	89	91	94	103
85°	34	33	32	36	36	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	848.7	848.7	848.7	848.7	848.7
2.5°	850.0	848.7	844.6	850.0	849.6
5°	847.3	845.5	842.0	846.9	846.4
7.5°	842.0	840.2	836.6	841.1	840.2
10°	833.9	832.1	828.5	833.5	831.2
12.5°	823.6	821.8	817.8	822.3	820.5
15°	810.7	809.3	804.4	808.9	805.7
17.5°	795.0	792.8	789.2	791.9	789.6
20°	777.6	774.9	769.1	771.8	769.5
22.5°	756.6	753.0	749.0	749.0	745.8
25°	732.9	730.2	723.9	722.6	719.0
27.5°	707.4	705.1	697.1	694.9	688.6
30°	678.8	675.6	667.1	660.0	654.6
32.5°	647.0	644.8	633.1	623.8	616.2
35°	615.7	610.3	597.8	584.4	578.1
37.5°	579.0	575.0	559.4	542.8	534.3
40°	542.4	537.5	519.1	500.8	491.9
42.5°	502.6	498.1	480.7	458.8	449.4
45°	466.8	459.7	438.6	414.9	406.0
47.5°	427.5	419.9	397.5	372.5	362.2
50°	385.9	381.0	357.7	333.6	326.0
52.5°	348.8	341.2	319.3	295.6	287.5
55°	313.4	306.3	283.0	260.7	253.5
57.5°	278.1	270.1	249.9	229.8	222.7
60°	245.0	237.0	217.3	200.8	196.3
62.5°	215.1	206.1	188.7	175.7	172.6
65°	184.7	178.9	163.7	154.3	152.5
67.5°	159.2	152.0	140.0	135.5	134.6
70°	135.9	131.0	120.7	119.4	119.4
72.5°	114.9	110.9	103.3	104.2	105.5
75°	96.1	93.5	89.0	90.8	93.5
77.5°	80.0	77.4	74.7	77.4	79.1
80°	64.8	62.2	61.7	63.9	65.3
82.5°	48.7	46.5	46.9	50.5	51.9
85°	34.0	32.6	31.7	35.8	36.2
87.5°	17.4	16.5	16.1	19.2	18.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)