

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: P291086

Luminaire Tested: **14GR-LD5-20-A-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291086
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33314)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-20-A-UNV-L92765-W2A1-U-4500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1888.0 lumens
Efficiency: N/A
Efficacy: 119.4 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.21 / 1.26
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

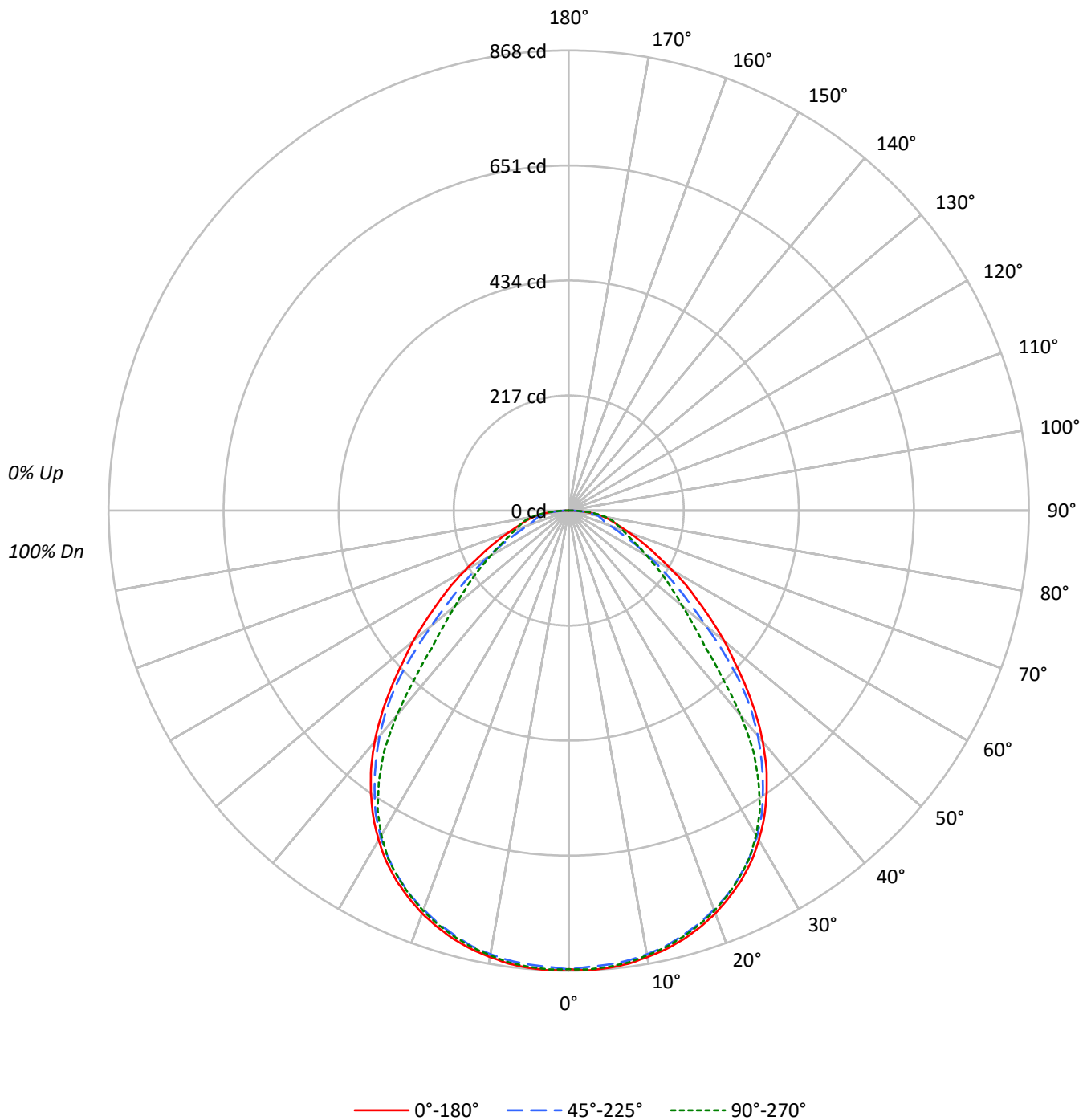
Input Watts (W): 15.81
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			
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°	2328	2328	2328
5°	2339	2322	2333
10°	2337	2322	2328
15°	2332	2311	2319
20°	2316	2294	2300
25°	2285	2263	2264
30°	2229	2206	2197
35°	2138	2099	2051
40°	2001	1950	1775
45°	1807	1739	1387
50°	1603	1412	1173
55°	1399	1158	1035
60°	1213	954	913
65°	1064	765	843
70°	949	648	849
75°	925	684	948
80°	1026	863	1088
85°	1068	920	1272



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.1	4.3
10°-20°	235.1	12.5
20°-30°	351.8	18.6
30°-40°	397.1	21.0
40°-50°	336.9	17.8
50°-60°	227.9	12.1
60°-70°	136.0	7.2
70°-80°	85.2	4.5
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°	669.0	35.4
0°-40°	1066.1	56.5
0°-60°	1630.9	86.4
0°-90°	1888.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1888.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	865	865	865	865	865	
5°	866	863	860	866	864	82
15°	837	835	830	835	832	236
25°	770	767	762	766	763	354
35°	651	646	639	633	624	405
45°	475	477	457	392	364	366
55°	298	284	247	221	221	269
65°	167	139	120	128	132	167
75°	89	79	66	87	91	96
85°	35	33	30	39	41	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	865.2	865.2	865.2	865.2	865.2
2.5°	868.2	865.6	861.7	866.9	866.5
5°	866.0	863.4	859.5	865.6	863.8
7.5°	862.1	859.9	856.0	861.7	859.9
10°	855.1	853.3	849.8	854.6	852.0
12.5°	847.6	846.3	841.9	846.3	843.7
15°	837.1	835.3	829.6	835.3	832.3
17.5°	823.9	821.8	816.9	821.8	819.1
20°	808.6	806.0	801.1	806.0	803.3
22.5°	790.2	788.0	783.6	788.0	784.5
25°	769.6	766.9	762.1	765.6	762.6
27.5°	745.9	742.4	738.0	740.6	738.9
30°	717.4	713.0	709.9	709.9	706.9
32.5°	686.3	683.2	677.9	674.9	670.9
35°	650.7	646.4	638.9	633.2	624.4
37.5°	612.6	607.3	598.1	583.6	571.8
40°	569.6	563.0	555.1	526.6	505.2
42.5°	523.6	522.3	508.7	460.0	430.2
45°	474.9	476.7	456.9	391.6	364.4
47.5°	425.8	431.9	396.0	331.9	317.9
50°	382.8	385.0	337.2	288.1	280.2
52.5°	338.5	335.0	287.7	253.5	247.8
55°	298.2	284.1	246.9	221.0	220.6
57.5°	262.7	236.8	210.9	191.6	193.8
60°	225.4	196.4	177.2	166.6	169.7
62.5°	192.5	164.9	147.8	144.7	150.0
65°	167.1	138.6	120.1	128.0	132.4
67.5°	143.0	118.8	97.8	116.6	118.4
70°	120.6	103.0	82.4	107.4	107.9
72.5°	102.2	91.2	71.5	97.3	98.7
75°	89.0	79.4	65.8	86.8	91.2
77.5°	78.1	68.0	61.0	75.0	82.4
80°	66.2	54.8	55.7	62.7	70.2
82.5°	50.9	42.5	44.3	51.7	57.0
85°	34.6	32.9	29.8	38.6	41.2
87.5°	18.4	17.5	15.3	21.9	20.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)