

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: P291083

Luminaire Tested: **14GR-LD5-20-A-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291083
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-3000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1698.0 lumens
Efficiency: N/A
Efficacy: 110.7 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

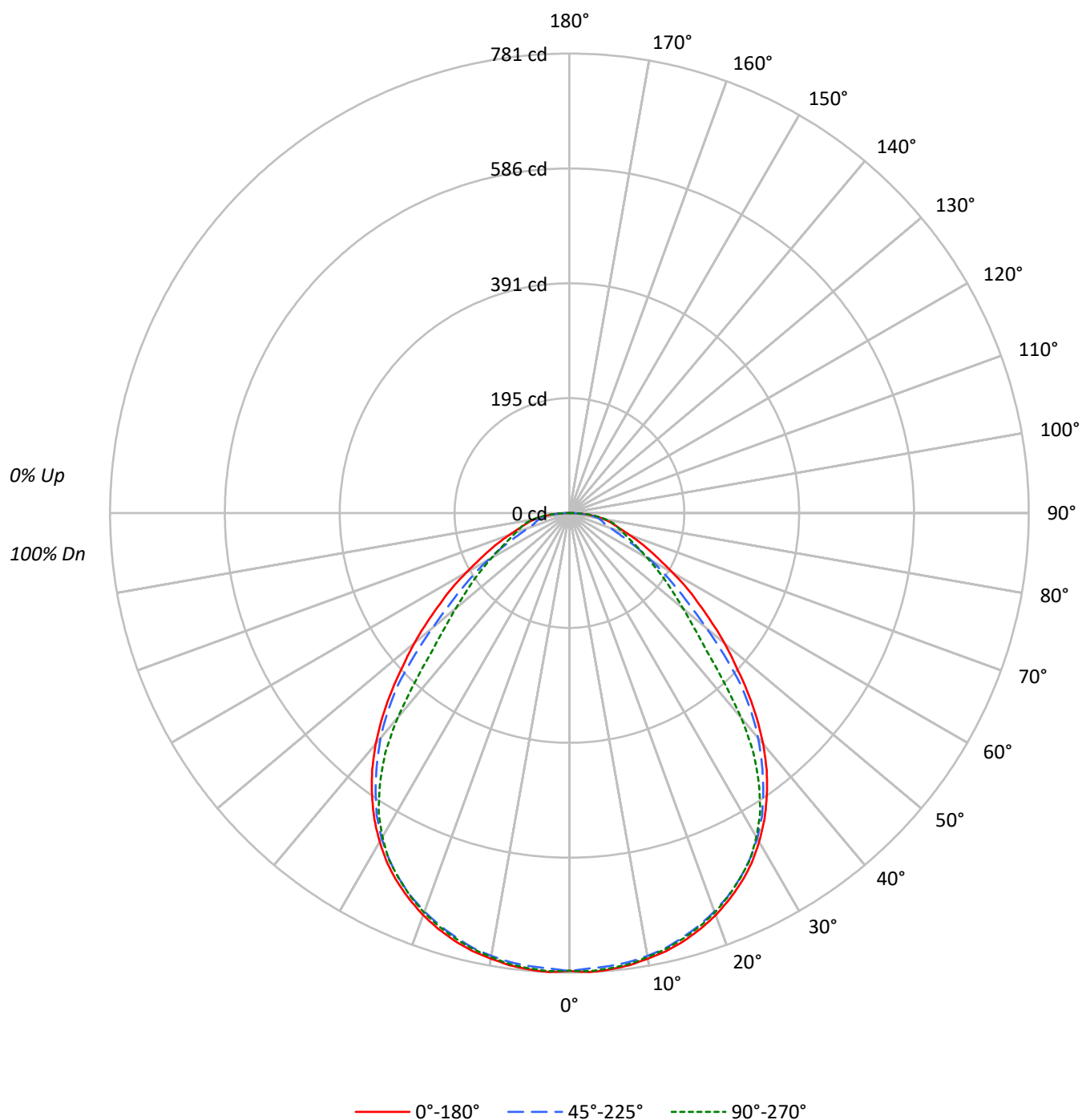
Input Watts (W): 15.345
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2094	2094	2094
5°	2104	2088	2099
10°	2101	2088	2094
15°	2098	2079	2085
20°	2082	2063	2069
25°	2055	2035	2036
30°	2005	1984	1975
35°	1923	1888	1845
40°	1800	1754	1596
45°	1625	1564	1247
50°	1441	1270	1055
55°	1258	1042	931
60°	1091	857	821
65°	957	688	758
70°	854	583	763
75°	833	616	853
80°	924	776	978
85°	963	827	1145



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.8	4.3
10°-20°	211.5	12.5
20°-30°	316.4	18.6
30°-40°	357.1	21.0
40°-50°	303.0	17.8
50°-60°	205.0	12.1
60°-70°	122.4	7.2
70°-80°	76.6	4.5
80°-90°	32.2	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°	601.7	35.4
0°-40°	958.8	56.5
0°-60°	1466.8	86.4
0°-90°	1698.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1698.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	778	778	778	778	778	
5°	779	776	773	778	777	74
15°	753	751	746	751	748	212
25°	692	690	685	689	686	318
35°	585	581	575	570	562	365
45°	427	429	411	352	328	329
55°	268	256	222	199	198	242
65°	150	125	108	115	119	150
75°	80	71	59	78	82	86
85°	31	30	27	35	37	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	778.1	778.1	778.1	778.1	778.1
2.5°	780.9	778.5	774.9	779.7	779.3
5°	778.9	776.5	773.0	778.5	776.9
7.5°	775.3	773.4	769.8	774.9	773.4
10°	769.0	767.5	764.3	768.6	766.3
12.5°	762.3	761.1	757.2	761.1	758.8
15°	752.9	751.3	746.2	751.3	748.5
17.5°	741.0	739.1	734.7	739.1	736.7
20°	727.2	724.9	720.5	724.9	722.5
22.5°	710.7	708.7	704.7	708.7	705.5
25°	692.1	689.8	685.4	688.6	685.8
27.5°	670.8	667.7	663.7	666.1	664.5
30°	645.2	641.3	638.5	638.5	635.7
32.5°	617.2	614.4	609.7	606.9	603.4
35°	585.3	581.3	574.6	569.5	561.6
37.5°	550.9	546.2	537.9	524.9	514.3
40°	512.3	506.4	499.3	473.6	454.3
42.5°	470.9	469.7	457.5	413.7	386.9
45°	427.1	428.7	410.9	352.2	327.7
47.5°	382.9	388.5	356.1	298.5	285.9
50°	344.3	346.3	303.3	259.1	252.0
52.5°	304.5	301.3	258.7	227.9	222.8
55°	268.2	255.6	222.0	198.8	198.4
57.5°	236.2	213.0	189.7	172.3	174.3
60°	202.7	176.7	159.3	149.9	152.6
62.5°	173.1	148.3	132.9	130.1	134.9
65°	150.3	124.6	108.1	115.2	119.1
67.5°	128.6	106.9	87.9	104.9	106.5
70°	108.5	92.7	74.1	96.6	97.0
72.5°	91.9	82.0	64.3	87.6	88.7
75°	80.1	71.4	59.2	78.1	82.0
77.5°	70.2	61.1	54.8	67.4	74.1
80°	59.6	49.3	50.1	56.4	63.1
82.5°	45.7	38.3	39.8	46.5	51.3
85°	31.2	29.6	26.8	34.7	37.1
87.5°	16.6	15.8	13.8	19.7	18.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)