

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: P291088

Luminaire Tested: **14GR-LD5-20-A-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291088
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-5500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1955.0 lumens
Efficiency: N/A
Efficacy: 122.2 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

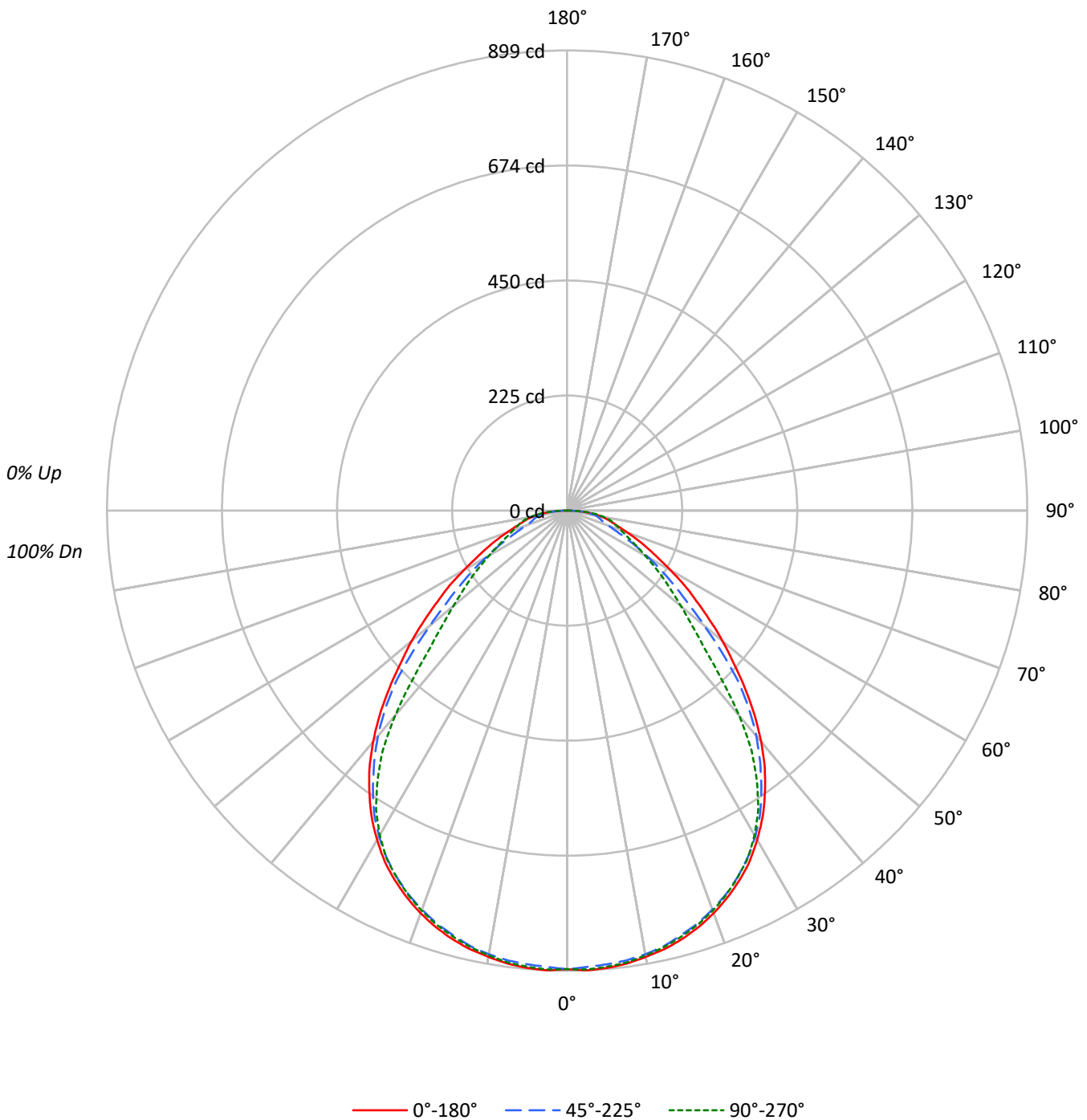
Input Watts (W): 15.996
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2411	2411	2411
5°	2422	2404	2416
10°	2419	2405	2411
15°	2415	2393	2401
20°	2398	2376	2382
25°	2366	2343	2344
30°	2308	2284	2275
35°	2213	2173	2124
40°	2072	2019	1838
45°	1872	1800	1436
50°	1659	1462	1214
55°	1449	1199	1072
60°	1256	987	946
65°	1102	792	873
70°	983	672	879
75°	959	708	981
80°	1063	894	1127
85°	1108	954	1318



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.0	4.3
10°-20°	243.5	12.5
20°-30°	364.3	18.6
30°-40°	411.2	21.0
40°-50°	348.8	17.8
50°-60°	236.0	12.1
60°-70°	140.9	7.2
70°-80°	88.2	4.5
80°-90°	37.1	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°	692.8	35.4
0°-40°	1103.9	56.5
0°-60°	1688.8	86.4
0°-90°	1955.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1955.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	896	896	896	896	896	
5°	897	894	890	896	894	85
15°	867	865	859	865	862	244
25°	797	794	789	793	790	366
35°	674	669	662	656	647	420
45°	492	494	473	406	377	379
55°	309	294	256	229	228	278
65°	173	144	124	133	137	173
75°	92	82	68	90	94	99
85°	36	34	31	40	43	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	895.9	895.9	895.9	895.9	895.9
2.5°	899.0	896.3	892.2	897.7	897.2
5°	896.8	894.1	890.0	896.3	894.5
7.5°	892.7	890.4	886.3	892.2	890.4
10°	885.4	883.6	880.0	885.0	882.2
12.5°	877.7	876.3	871.8	876.3	873.6
15°	866.8	865.0	859.1	865.0	861.8
17.5°	853.2	850.9	845.9	850.9	848.2
20°	837.3	834.6	829.6	834.6	831.8
22.5°	818.2	816.0	811.4	816.0	812.3
25°	796.9	794.2	789.2	792.8	789.6
27.5°	772.4	768.7	764.2	766.9	765.1
30°	742.8	738.3	735.1	735.1	732.0
32.5°	710.6	707.4	702.0	698.8	694.7
35°	673.8	669.3	661.6	655.7	646.6
37.5°	634.3	628.9	619.3	604.4	592.1
40°	589.8	583.0	574.8	545.3	523.1
42.5°	542.2	540.8	526.7	476.3	445.4
45°	491.8	493.6	473.1	405.5	377.3
47.5°	440.9	447.3	410.0	343.7	329.2
50°	396.4	398.7	349.2	298.3	290.1
52.5°	350.5	346.9	297.9	262.4	256.5
55°	308.8	294.2	255.6	228.8	228.4
57.5°	272.0	245.2	218.4	198.4	200.7
60°	233.4	203.4	183.4	172.5	175.7
62.5°	199.3	170.7	153.0	149.8	155.3
65°	173.0	143.5	124.4	132.6	137.1
67.5°	148.0	123.1	101.3	120.8	122.6
70°	124.9	106.7	85.4	111.2	111.7
72.5°	105.8	94.4	74.0	100.8	102.2
75°	92.2	82.2	68.1	89.9	94.4
77.5°	80.8	70.4	63.1	77.6	85.4
80°	68.6	56.8	57.7	64.9	72.7
82.5°	52.7	44.0	45.9	53.6	59.0
85°	35.9	34.1	30.9	40.0	42.7
87.5°	19.1	18.2	15.9	22.7	21.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)