

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: P291137

Luminaire Tested: **14GR-LD5-43-A-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291137
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-LD5-43-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: 3594.0 lumens
Efficiency: N/A
Efficacy: 99.3 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

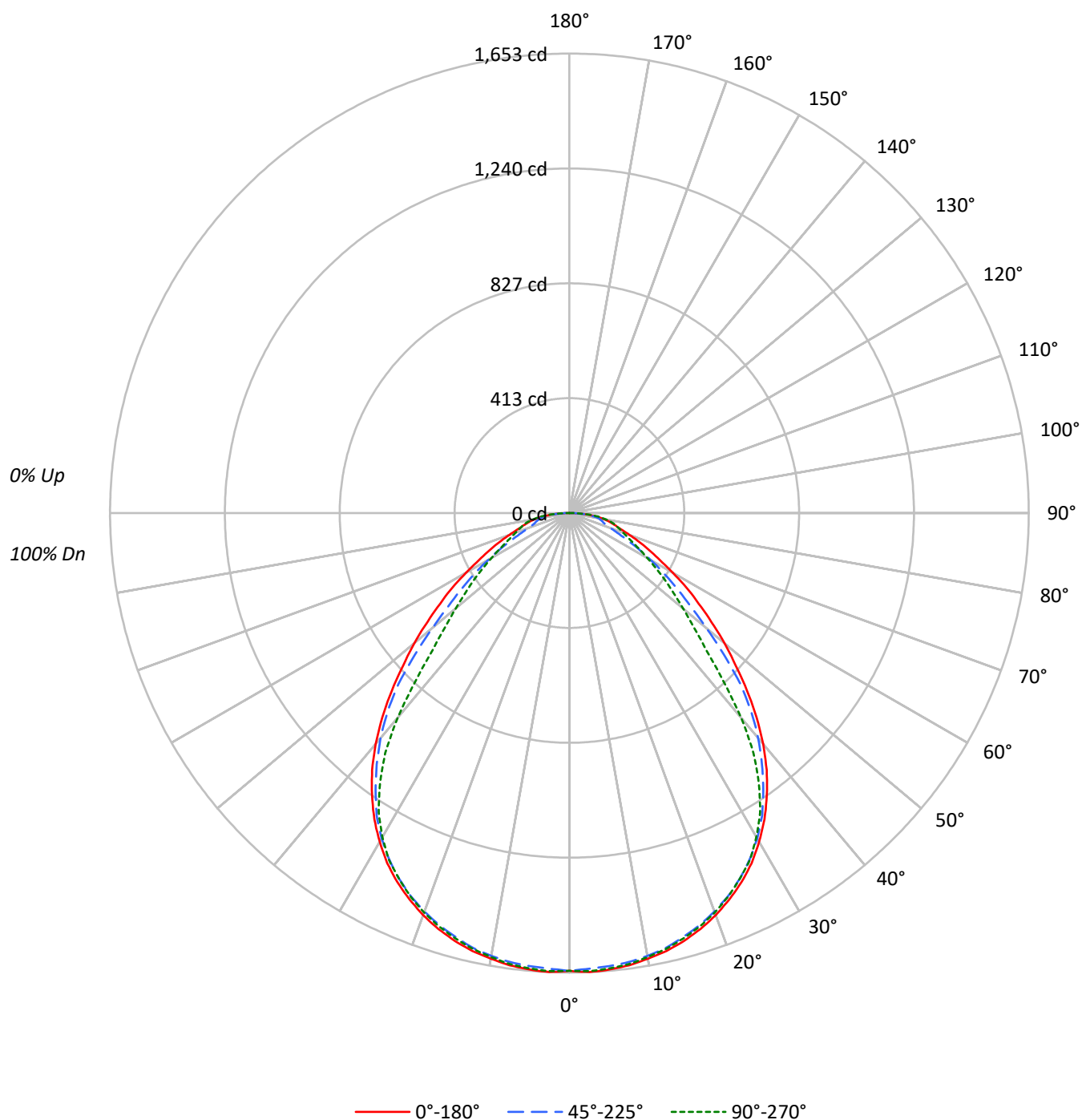
Input Watts (W): 36.177
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4432	4432	4432
5°	4453	4420	4442
10°	4448	4420	4432
15°	4439	4400	4414
20°	4408	4367	4379
25°	4350	4308	4310
30°	4243	4199	4181
35°	4069	3995	3905
40°	3809	3712	3378
45°	3440	3310	2640
50°	3051	2687	2233
55°	2663	2205	1970
60°	2309	1815	1738
65°	2025	1456	1605
70°	1806	1234	1615
75°	1762	1302	1805
80°	1953	1643	2070
85°	2035	1754	2424



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.3	4.3
10°-20°	447.6	12.5
20°-30°	669.6	18.6
30°-40°	755.9	21.0
40°-50°	641.3	17.8
50°-60°	433.9	12.1
60°-70°	259.0	7.2
70°-80°	162.2	4.5
80°-90°	68.2	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°	1273.5	35.4
0°-40°	2029.4	56.5
0°-60°	3104.6	86.4
0°-90°	3594.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3594.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1647	1647	1647	1647	1647	
5°	1649	1644	1636	1648	1644	157
15°	1594	1590	1579	1590	1584	449
25°	1465	1460	1451	1457	1452	674
35°	1239	1230	1216	1205	1189	772
45°	904	907	870	745	694	697
55°	568	541	470	421	420	511
65°	318	264	229	244	252	318
75°	170	151	125	165	174	182
85°	66	63	57	74	78	71
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1646.9	1646.9	1646.9	1646.9	1646.9
2.5°	1652.8	1647.8	1640.3	1650.3	1649.4
5°	1648.6	1643.6	1636.1	1647.8	1644.4
7.5°	1641.1	1636.9	1629.4	1640.3	1636.9
10°	1627.7	1624.4	1617.7	1626.9	1621.9
12.5°	1613.5	1611.0	1602.7	1611.0	1606.0
15°	1593.5	1590.2	1579.3	1590.2	1584.3
17.5°	1568.5	1564.3	1555.1	1564.3	1559.3
20°	1539.2	1534.2	1525.1	1534.2	1529.2
22.5°	1504.2	1500.0	1491.7	1500.0	1493.3
25°	1465.0	1459.9	1450.8	1457.4	1451.6
27.5°	1419.9	1413.2	1404.9	1409.9	1406.5
30°	1365.6	1357.3	1351.4	1351.4	1345.6
32.5°	1306.4	1300.5	1290.5	1284.7	1277.1
35°	1238.7	1230.4	1216.2	1205.4	1188.7
37.5°	1166.1	1156.1	1138.6	1111.0	1088.5
40°	1084.3	1071.8	1056.8	1002.5	961.6
42.5°	996.7	994.2	968.3	875.6	818.9
45°	904.0	907.4	869.8	745.4	693.7
47.5°	810.5	822.2	753.8	631.9	605.2
50°	728.7	732.9	641.9	548.4	533.4
52.5°	644.4	637.7	547.6	482.5	471.6
55°	567.6	540.9	470.0	420.7	419.9
57.5°	500.0	450.8	401.5	364.8	369.0
60°	429.1	374.0	337.2	317.2	323.0
62.5°	366.4	313.9	281.3	275.5	285.5
65°	318.0	263.8	228.7	243.7	252.1
67.5°	272.1	226.2	186.1	222.0	225.4
70°	229.6	196.2	156.9	204.5	205.3
72.5°	194.5	173.6	136.1	185.3	187.8
75°	169.5	151.1	125.2	165.3	173.6
77.5°	148.6	129.4	116.0	142.7	156.9
80°	126.0	104.3	106.0	119.4	133.6
82.5°	96.8	81.0	84.3	98.5	108.5
85°	65.9	62.6	56.8	73.5	78.5
87.5°	35.1	33.4	29.2	41.7	39.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)