

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: P291077

Luminaire Tested: **14GR-LD5-43-A-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291077
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-L93050-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: 3431.0 lumens
Efficiency: N/A
Efficacy: 91.8 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

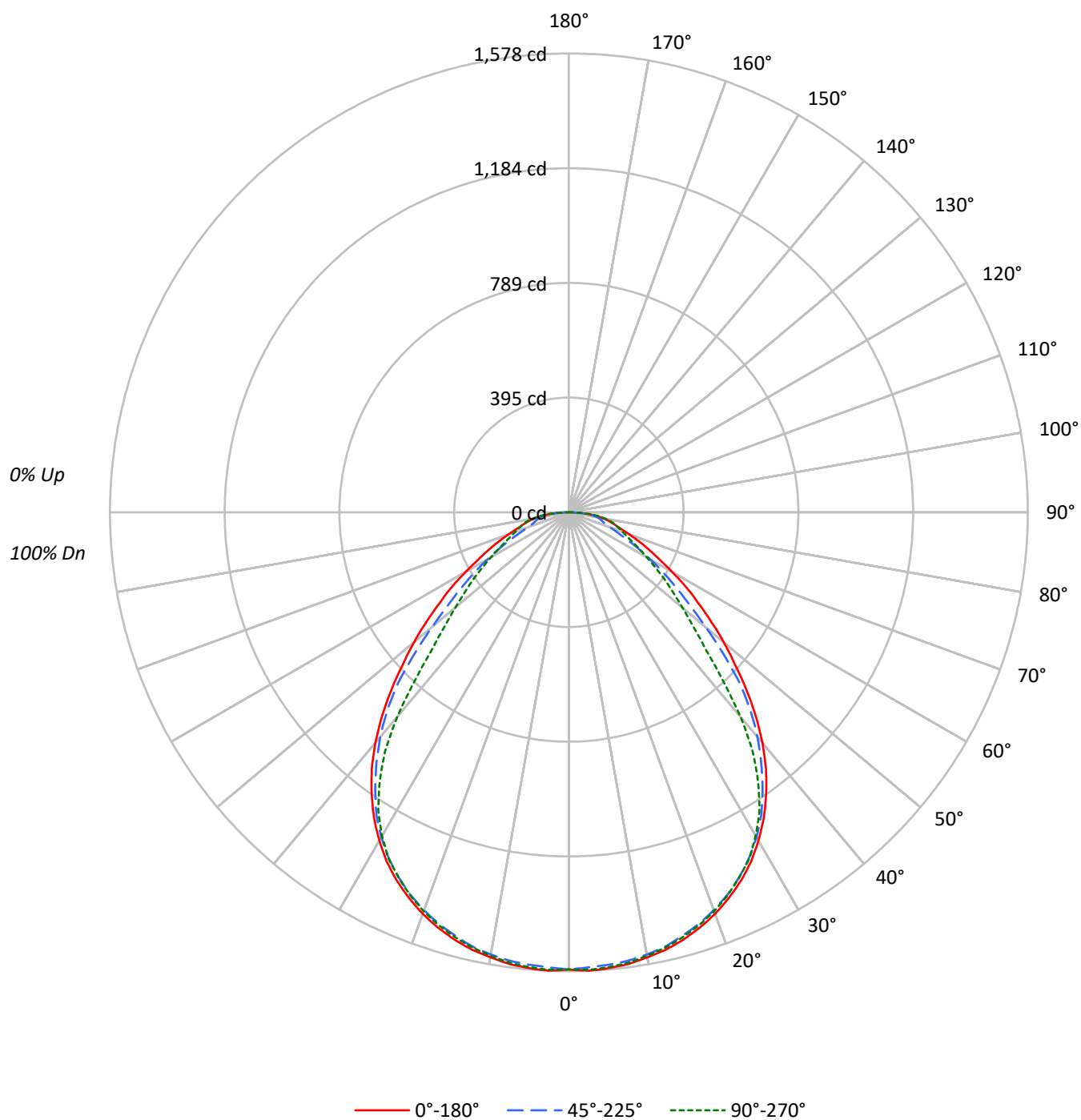
Input Watts (W): 37.386
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4231	4231	4231
5°	4251	4219	4240
10°	4246	4220	4231
15°	4238	4200	4214
20°	4208	4169	4181
25°	4152	4112	4115
30°	4051	4009	3992
35°	3885	3814	3728
40°	3636	3544	3225
45°	3284	3160	2520
50°	2912	2565	2132
55°	2542	2105	1880
60°	2204	1732	1660
65°	1933	1390	1533
70°	1724	1179	1542
75°	1682	1242	1724
80°	1864	1568	1976
85°	1945	1673	2313



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.2	4.3
10°-20°	427.3	12.5
20°-30°	639.3	18.6
30°-40°	721.6	21.0
40°-50°	612.2	17.8
50°-60°	414.2	12.1
60°-70°	247.2	7.2
70°-80°	154.8	4.5
80°-90°	65.1	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°	1215.8	35.4
0°-40°	1937.4	56.5
0°-60°	2963.8	86.4
0°-90°	3431.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3431.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1572	1572	1572	1572	1572	
5°	1574	1569	1562	1573	1570	150
15°	1521	1518	1508	1518	1512	429
25°	1398	1394	1385	1391	1386	643
35°	1183	1175	1161	1151	1135	737
45°	863	866	830	712	662	665
55°	542	516	449	402	401	488
65°	304	252	218	233	241	303
75°	162	144	120	158	166	174
85°	63	60	54	70	75	68
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1572.2	1572.2	1572.2	1572.2	1572.2
2.5°	1577.8	1573.0	1565.9	1575.4	1574.6
5°	1573.8	1569.0	1561.9	1573.0	1569.8
7.5°	1566.7	1562.7	1555.5	1565.9	1562.7
10°	1553.9	1550.7	1544.3	1553.1	1548.3
12.5°	1540.4	1538.0	1530.0	1538.0	1533.2
15°	1521.2	1518.0	1507.7	1518.0	1512.5
17.5°	1497.3	1493.3	1484.6	1493.3	1488.6
20°	1469.4	1464.7	1455.9	1464.7	1459.9
22.5°	1436.0	1432.0	1424.0	1432.0	1425.6
25°	1398.5	1393.7	1385.0	1391.3	1385.8
27.5°	1355.5	1349.1	1341.1	1345.9	1342.7
30°	1303.7	1295.7	1290.1	1290.1	1284.6
32.5°	1247.1	1241.5	1232.0	1226.4	1219.2
35°	1182.6	1174.6	1161.0	1150.7	1134.8
37.5°	1113.2	1103.7	1086.9	1060.6	1039.1
40°	1035.1	1023.2	1008.8	957.0	918.0
42.5°	951.5	949.1	924.4	835.9	781.7
45°	863.0	866.2	830.3	711.6	662.2
47.5°	773.8	784.9	719.6	603.2	577.7
50°	695.7	699.7	612.8	523.5	509.2
52.5°	615.2	608.8	522.8	460.6	450.2
55°	541.9	516.4	448.6	401.6	400.8
57.5°	477.3	430.3	383.3	348.2	352.2
60°	409.6	357.0	321.9	302.8	308.4
62.5°	349.8	299.6	268.5	263.0	272.5
65°	303.6	251.8	218.3	232.7	240.7
67.5°	259.8	216.0	177.7	212.0	215.2
70°	219.1	187.3	149.8	195.2	196.0
72.5°	185.7	165.8	129.9	176.9	179.3
75°	161.8	144.2	119.5	157.8	165.8
77.5°	141.8	123.5	110.8	136.3	149.8
80°	120.3	99.6	101.2	114.0	127.5
82.5°	92.4	77.3	80.5	94.0	103.6
85°	63.0	59.8	54.2	70.1	74.9
87.5°	33.5	31.9	27.9	39.8	37.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)