

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: P290738

Luminaire Tested: **14GR-LD5-40-F1-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290738
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-084-7)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-40-F1-UNV-L92765-W2A1-U-4000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3612.0 lumens
Efficiency: N/A
Efficacy: 106.1 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.15 / 1.23
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

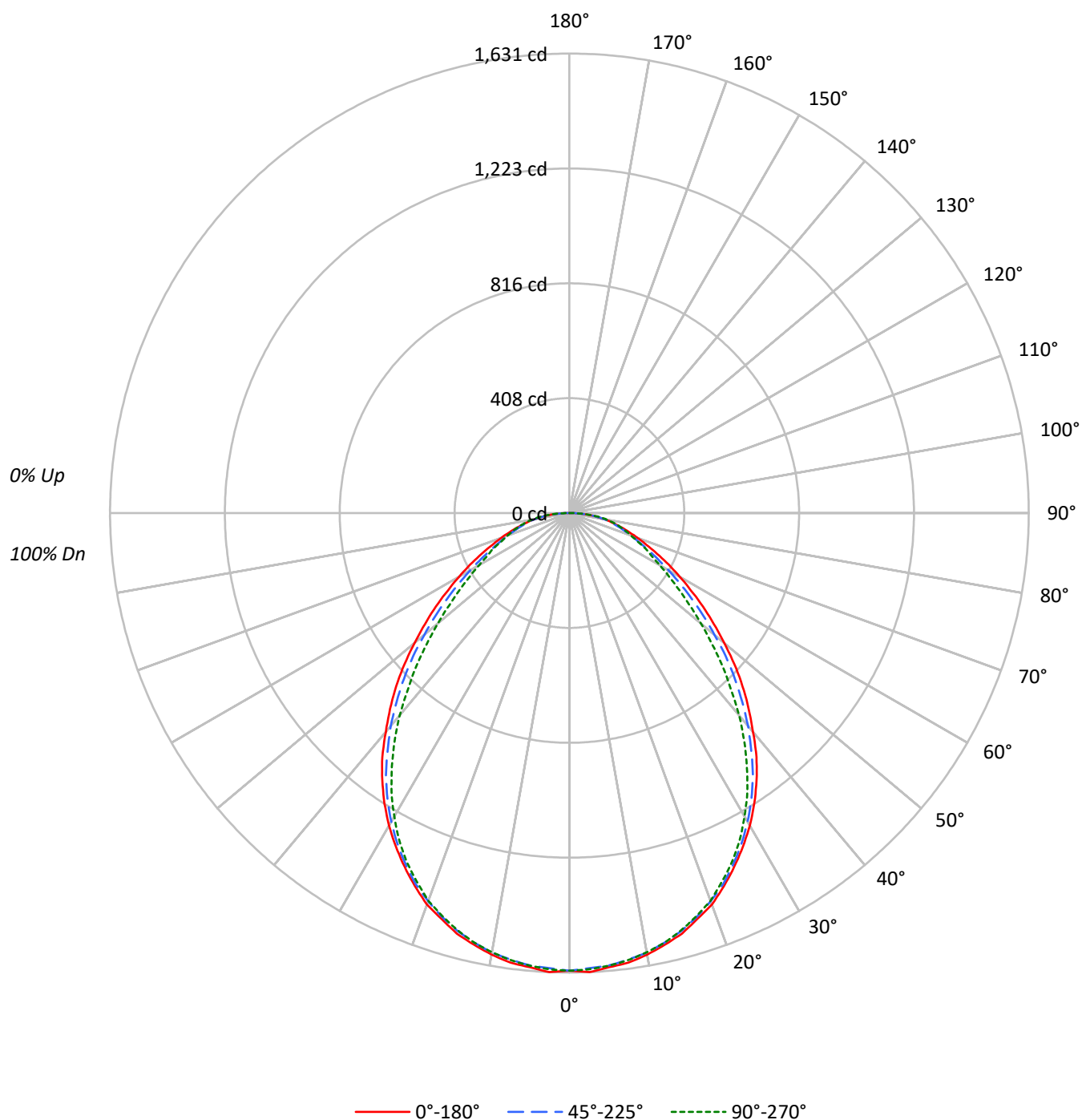
Input Watts (W): 34.038
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85		
2	101	93	87	81	98	91	85	80	88	83	78	84	80	77	81	78	75	73		
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63		
4	85	74	66	59	83	73	65	59	70	64	58	68	62	57	66	61	57	55		
5	79	67	58	52	77	66	58	52	64	57	51	62	55	51	60	54	50	48		
6	73	61	52	46	71	60	52	46	58	51	45	56	50	45	55	49	45	43		
7	68	55	47	41	66	54	47	41	53	46	41	52	45	40	50	44	40	38		
8	64	51	43	37	62	50	42	37	49	42	37	47	41	36	46	41	36	34		
9	60	47	39	34	58	46	39	33	45	38	33	44	38	33	43	37	33	31		
10	56	43	36	31	55	43	35	31	42	35	30	41	35	30	40	34	30	29		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4371	4371	4371
5°	4370	4354	4357
10°	4348	4328	4326
15°	4304	4279	4272
20°	4235	4199	4194
25°	4113	4086	4056
30°	3980	3931	3864
35°	3805	3732	3609
40°	3563	3464	3292
45°	3308	3160	2930
50°	3002	2815	2551
55°	2715	2486	2229
60°	2437	2179	1988
65°	2188	1945	1903
70°	2020	1811	1830
75°	1929	1816	1919
80°	1949	1937	2092
85°	2019	1995	2223



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.4	4.2
10°-20°	433.5	12.0
20°-30°	633.1	17.5
30°-40°	705.5	19.5
40°-50°	635.6	17.6
50°-60°	475.1	13.2
60°-70°	313.4	8.7
70°-80°	191.3	5.3
80°-90°	71.0	2.0
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°	1220.0	33.8
0°-40°	1925.5	53.3
0°-60°	3036.3	84.1
0°-90°	3612.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3612.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1624	1624	1624	1624	1624	
5°	1618	1616	1612	1620	1613	154
15°	1545	1539	1536	1545	1533	435
25°	1385	1380	1376	1378	1366	638
35°	1158	1148	1136	1116	1099	722
45°	869	860	830	792	770	669
55°	579	570	530	486	475	518
65°	344	333	306	293	299	344
75°	186	182	175	180	185	198
85°	65	63	65	71	72	70
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1624.4	1624.4	1624.4	1624.4	1624.4
2.5°	1631.0	1623.6	1617.0	1626.9	1621.1
5°	1617.8	1616.1	1612.0	1620.3	1612.8
7.5°	1609.5	1603.7	1598.7	1608.7	1600.4
10°	1591.3	1588.0	1583.8	1592.1	1583.0
12.5°	1568.9	1565.6	1561.5	1571.4	1561.5
15°	1544.9	1539.1	1535.8	1544.9	1533.3
17.5°	1510.2	1507.7	1502.7	1511.8	1500.2
20°	1478.7	1469.6	1466.3	1472.9	1464.6
22.5°	1433.2	1426.5	1425.7	1429.8	1415.8
25°	1385.1	1380.2	1376.0	1378.5	1366.1
27.5°	1334.6	1328.0	1323.0	1322.2	1309.0
30°	1280.8	1272.5	1265.1	1258.5	1243.6
32.5°	1222.0	1212.1	1202.2	1191.4	1175.7
35°	1158.3	1148.3	1135.9	1116.1	1098.7
37.5°	1091.2	1079.6	1059.8	1036.6	1019.2
40°	1014.2	1008.4	986.1	956.3	937.2
42.5°	942.2	935.6	907.4	874.3	848.6
45°	869.3	860.2	830.4	792.3	770.0
47.5°	794.8	785.7	752.6	705.4	685.5
50°	717.0	712.0	672.3	629.2	609.4
52.5°	645.8	640.0	599.4	556.4	538.2
55°	578.7	569.6	529.9	486.0	475.2
57.5°	511.7	501.7	464.5	427.2	419.8
60°	452.9	440.5	404.9	375.9	369.3
62.5°	397.4	383.3	353.5	331.2	327.9
65°	343.6	332.8	305.5	293.1	298.9
67.5°	297.2	286.5	266.6	261.6	260.0
70°	256.7	246.7	230.2	231.8	232.6
72.5°	219.4	213.6	201.2	205.3	208.6
75°	185.5	182.1	174.7	180.5	184.6
77.5°	154.8	152.3	149.0	154.0	160.6
80°	125.8	124.2	125.0	128.3	135.0
82.5°	96.9	93.6	96.0	102.7	106.8
85°	65.4	62.9	64.6	71.2	72.0
87.5°	30.6	30.6	29.8	34.8	34.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)