

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: P291129

Luminaire Tested: **14GR-LD5-40-A-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291129
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-LD5-40-A-UNV-L92765-W2A1-U-3500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3537.0 lumens
Efficiency: N/A
Efficacy: 104.8 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

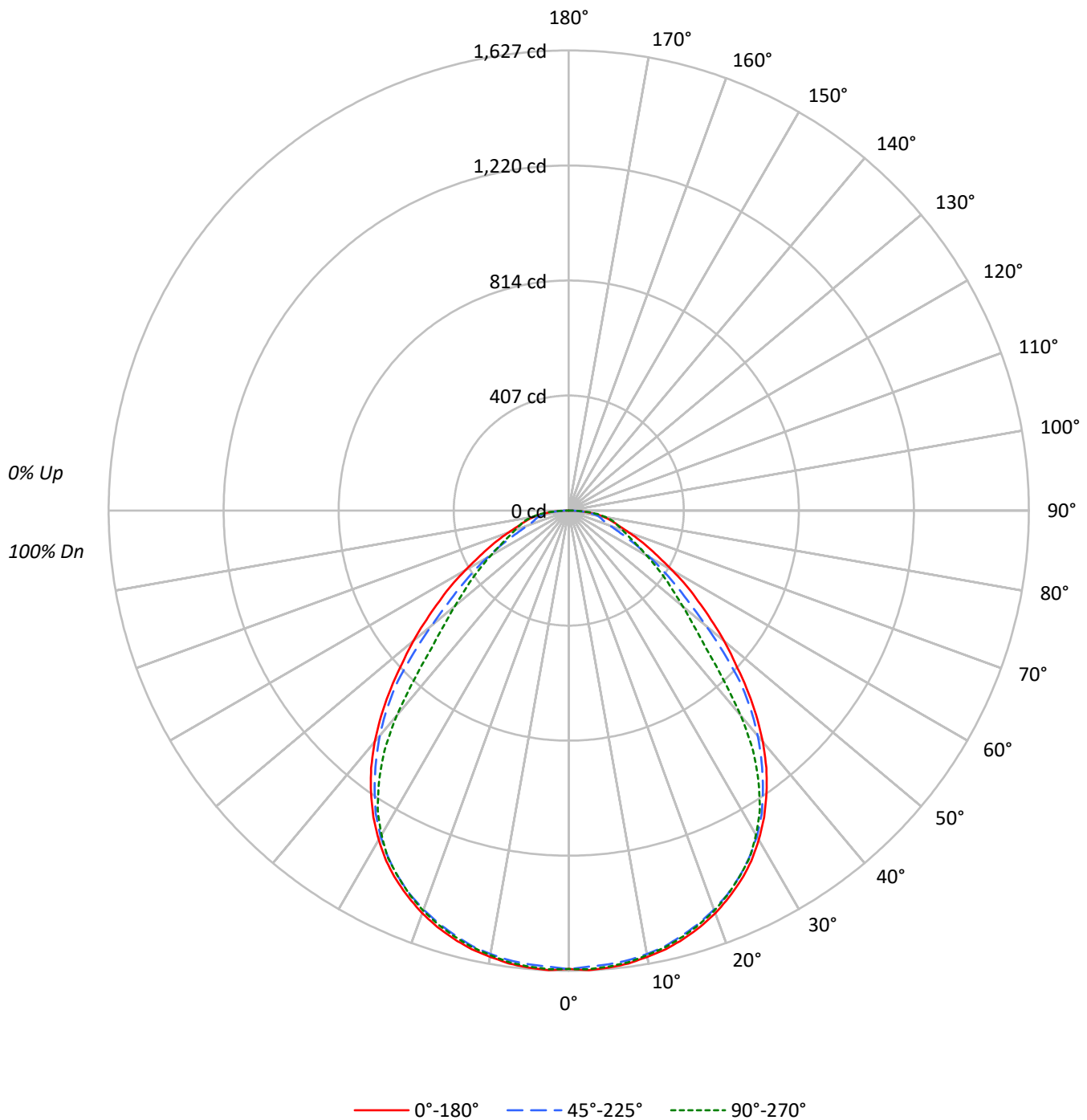
Input Watts (W): 33.759
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4362	4362	4362
5°	4383	4349	4371
10°	4377	4350	4362
15°	4369	4330	4344
20°	4338	4298	4310
25°	4281	4239	4242
30°	4176	4133	4115
35°	4005	3932	3843
40°	3749	3653	3325
45°	3386	3258	2598
50°	3003	2645	2197
55°	2621	2170	1939
60°	2272	1786	1711
65°	1993	1433	1580
70°	1777	1215	1590
75°	1734	1281	1777
80°	1922	1616	2036
85°	2004	1726	2384



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.8	4.3
10°-20°	440.5	12.5
20°-30°	659.0	18.6
30°-40°	743.9	21.0
40°-50°	631.1	17.8
50°-60°	427.0	12.1
60°-70°	254.9	7.2
70°-80°	159.6	4.5
80°-90°	67.2	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°	1253.3	35.4
0°-40°	1997.2	56.5
0°-60°	3055.3	86.4
0°-90°	3537.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3537.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1621	1621	1621	1621	1621	
5°	1622	1618	1610	1622	1618	154
15°	1568	1565	1554	1565	1559	442
25°	1442	1437	1428	1434	1429	663
35°	1219	1211	1197	1186	1170	760
45°	890	893	856	734	683	686
55°	559	532	462	414	413	503
65°	313	260	225	240	248	313
75°	167	149	123	163	171	179
85°	65	62	56	72	77	70
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1620.8	1620.8	1620.8	1620.8	1620.8
2.5°	1626.6	1621.6	1614.2	1624.1	1623.3
5°	1622.5	1617.5	1610.1	1621.6	1618.3
7.5°	1615.1	1611.0	1603.6	1614.2	1611.0
10°	1601.9	1598.6	1592.1	1601.1	1596.2
12.5°	1588.0	1585.5	1577.3	1585.5	1580.6
15°	1568.2	1564.9	1554.3	1564.9	1559.2
17.5°	1543.6	1539.5	1530.4	1539.5	1534.6
20°	1514.8	1509.9	1500.9	1509.9	1505.0
22.5°	1480.3	1476.2	1468.0	1476.2	1469.7
25°	1441.7	1436.8	1427.8	1434.3	1428.6
27.5°	1397.4	1390.8	1382.6	1387.5	1384.2
30°	1344.0	1335.8	1330.0	1330.0	1324.3
32.5°	1285.6	1279.9	1270.0	1264.3	1256.9
35°	1219.1	1210.9	1196.9	1186.2	1169.8
37.5°	1147.6	1137.8	1120.5	1093.4	1071.2
40°	1067.1	1054.8	1040.0	986.6	946.4
42.5°	980.9	978.4	952.9	861.7	805.9
45°	889.7	893.0	856.0	733.6	682.7
47.5°	797.7	809.2	741.8	621.9	595.6
50°	717.2	721.3	631.7	539.7	524.9
52.5°	634.2	627.6	538.9	474.8	464.1
55°	558.6	532.3	462.5	414.0	413.2
57.5°	492.1	443.6	395.1	359.0	363.1
60°	422.2	368.0	331.9	312.2	317.9
62.5°	360.6	308.9	276.8	271.1	281.0
65°	313.0	259.6	225.1	239.9	248.1
67.5°	267.8	222.6	183.2	218.5	221.8
70°	225.9	193.1	154.4	201.3	202.1
72.5°	191.4	170.9	133.9	182.4	184.8
75°	166.8	148.7	123.2	162.7	170.9
77.5°	146.2	127.3	114.2	140.5	154.4
80°	124.0	102.7	104.3	117.5	131.4
82.5°	95.3	79.7	83.0	96.9	106.8
85°	64.9	61.6	55.9	72.3	77.2
87.5°	34.5	32.9	28.8	41.1	38.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)