

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: P291029

Luminaire Tested: **14GR-LD5-40-A-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291029
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-L82765-W2A1-U-2700K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3794.0 lumens
Efficiency: N/A
Efficacy: 112.7 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

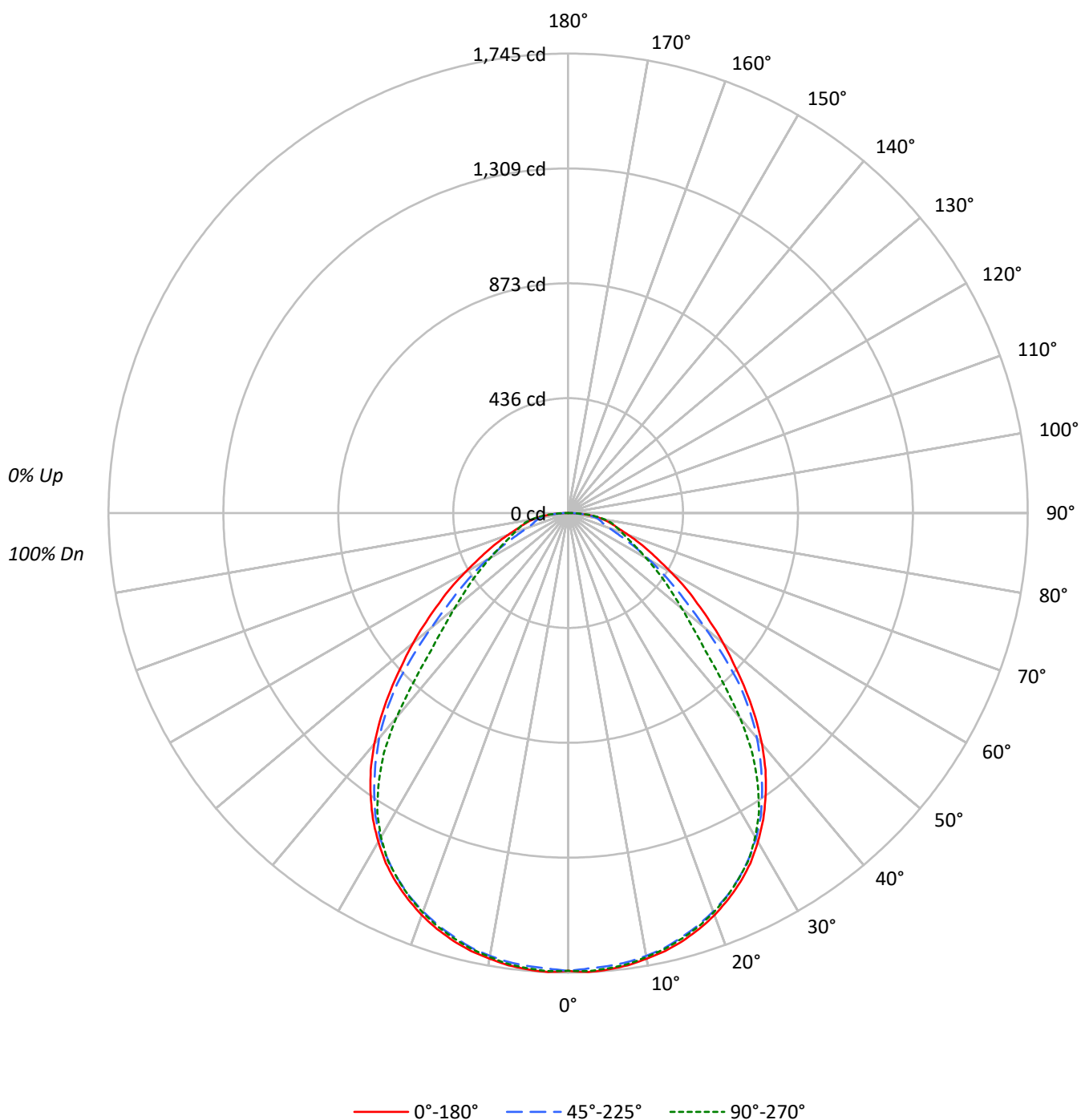
Input Watts (W): 33.666
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	4679	4679	4679
5°	4701	4665	4689
10°	4695	4666	4678
15°	4686	4645	4659
20°	4653	4610	4623
25°	4592	4547	4550
30°	4479	4433	4414
35°	4296	4218	4122
40°	4021	3919	3566
45°	3632	3494	2787
50°	3221	2837	2357
55°	2811	2327	2079
60°	2437	1916	1835
65°	2138	1537	1694
70°	1906	1304	1706
75°	1860	1375	1906
80°	2063	1734	2185
85°	2149	1849	2556



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.0	4.3
10°-20°	472.5	12.5
20°-30°	706.9	18.6
30°-40°	798.0	21.0
40°-50°	677.0	17.8
50°-60°	458.0	12.1
60°-70°	273.4	7.2
70°-80°	171.2	4.5
80°-90°	72.0	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°	1344.4	35.4
0°-40°	2142.3	56.5
0°-60°	3277.3	86.4
0°-90°	3794.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3794.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1739	1739	1739	1739	1739	
5°	1740	1735	1727	1740	1736	165
15°	1682	1679	1667	1679	1672	474
25°	1546	1541	1532	1538	1532	711
35°	1308	1299	1284	1272	1255	815
45°	954	958	918	787	732	735
55°	599	571	496	444	443	540
65°	336	278	241	257	266	336
75°	179	160	132	174	183	192
85°	70	66	60	78	83	75
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1738.6	1738.6	1738.6	1738.6	1738.6
2.5°	1744.7	1739.5	1731.5	1742.1	1741.2
5°	1740.3	1735.1	1727.1	1739.5	1735.9
7.5°	1732.4	1728.0	1720.1	1731.5	1728.0
10°	1718.3	1714.8	1707.7	1717.4	1712.1
12.5°	1703.3	1700.7	1691.9	1700.7	1695.4
15°	1682.2	1678.7	1667.2	1678.7	1672.5
17.5°	1655.7	1651.3	1641.6	1651.3	1646.1
20°	1624.9	1619.6	1609.9	1619.6	1614.3
22.5°	1587.9	1583.5	1574.7	1583.5	1576.4
25°	1546.5	1541.2	1531.5	1538.5	1532.4
27.5°	1498.9	1491.8	1483.0	1488.3	1484.8
30°	1441.6	1432.8	1426.6	1426.6	1420.5
32.5°	1379.1	1372.9	1362.3	1356.1	1348.2
35°	1307.7	1298.9	1283.9	1272.4	1254.8
37.5°	1231.0	1220.4	1201.9	1172.9	1149.1
40°	1144.7	1131.4	1115.6	1058.3	1015.1
42.5°	1052.1	1049.5	1022.2	924.4	864.4
45°	954.3	957.8	918.2	786.9	732.3
47.5°	855.6	868.0	795.7	667.1	638.9
50°	769.3	773.7	677.6	578.9	563.1
52.5°	680.3	673.2	578.1	509.3	497.9
55°	599.2	571.0	496.1	444.1	443.2
57.5°	527.8	475.8	423.9	385.1	389.5
60°	452.9	394.8	356.0	334.9	341.0
62.5°	386.8	331.3	297.0	290.8	301.4
65°	335.7	278.5	241.4	257.3	266.1
67.5°	287.3	238.8	196.5	234.4	237.9
70°	242.3	207.1	165.7	215.9	216.8
72.5°	205.3	183.3	143.6	195.6	198.3
75°	178.9	159.5	132.2	174.5	183.3
77.5°	156.9	136.6	122.5	150.7	165.7
80°	133.1	110.1	111.9	126.0	141.0
82.5°	102.2	85.5	89.0	104.0	114.6
85°	69.6	66.1	59.9	77.5	82.8
87.5°	37.0	35.2	30.8	44.1	41.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)