

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: P290975

Luminaire Tested: **14GR-LD5-40-A-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290975
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-L83050-W2A1-U-3500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4134.0 lumens
Efficiency: N/A
Efficacy: 122.8 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

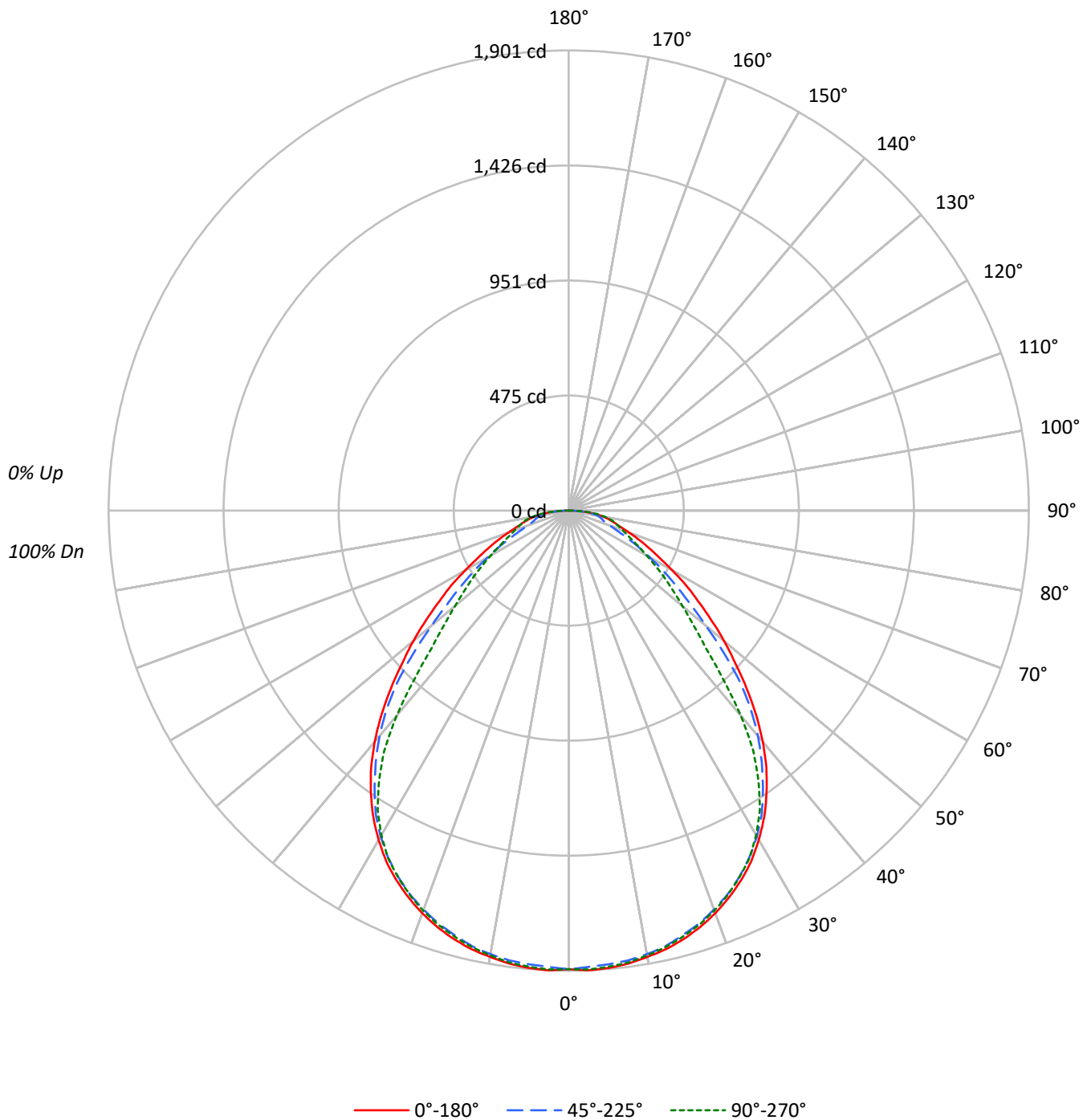
Input Watts (W): 33.666
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	110	106	102	98	107	103	100	97		99	96	94		95	93	91		92	90	88
2	101	94	88	83	99	92	86	82		88	84	80		85	81	78		82	79	76
3	93	84	76	71	91	82	75	70		79	74	69		77	72	68		74	70	66
4	86	75	67	61	84	74	67	61		72	65	60		69	64	59		67	62	58
5	80	68	60	54	78	67	59	53		65	58	53		63	57	52		61	56	52
6	74	62	54	48	72	61	53	47		59	52	47		58	51	47		56	51	46
7	69	57	48	43	67	56	48	43		54	47	42		53	47	42		52	46	42
8	65	52	44	38	63	51	44	38		50	43	38		49	43	38		48	42	38
9	61	48	40	35	59	47	40	35		46	39	35		45	39	35		44	39	34
10	57	44	37	32	56	44	37	32		43	36	32		42	36	32		41	36	31

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5098	5098	5098
5°	5122	5083	5109
10°	5116	5085	5098
15°	5106	5061	5077
20°	5070	5023	5037
25°	5003	4955	4958
30°	4881	4830	4809
35°	4681	4595	4492
40°	4381	4270	3886
45°	3957	3808	3037
50°	3509	3091	2568
55°	3063	2536	2266
60°	2656	2088	2000
65°	2329	1675	1847
70°	2077	1420	1858
75°	2026	1497	2076
80°	2247	1889	2380
85°	2343	2016	2788



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.7	4.3
10°-20°	514.9	12.5
20°-30°	770.2	18.6
30°-40°	869.5	21.0
40°-50°	737.6	17.8
50°-60°	499.1	12.1
60°-70°	297.9	7.2
70°-80°	186.6	4.5
80°-90°	78.5	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°	1464.9	35.4
0°-40°	2334.3	56.5
0°-60°	3571.1	86.4
0°-90°	4134.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4134.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1894	1894	1894	1894	1894	
5°	1896	1890	1882	1895	1892	180
15°	1833	1829	1817	1829	1822	517
25°	1685	1679	1669	1676	1670	775
35°	1425	1415	1399	1386	1367	888
45°	1040	1044	1000	857	798	801
55°	653	622	541	484	483	588
65°	366	303	263	280	290	366
75°	195	174	144	190	200	210
85°	76	72	65	84	90	82
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1894.4	1894.4	1894.4	1894.4	1894.4
2.5°	1901.1	1895.3	1886.7	1898.2	1897.3
5°	1896.3	1890.5	1881.9	1895.3	1891.5
7.5°	1887.7	1882.9	1874.2	1886.7	1882.9
10°	1872.3	1868.5	1860.8	1871.3	1865.6
12.5°	1856.0	1853.1	1843.5	1853.1	1847.3
15°	1832.9	1829.1	1816.6	1829.1	1822.4
17.5°	1804.1	1799.3	1788.8	1799.3	1793.6
20°	1770.5	1764.8	1754.2	1764.8	1759.0
22.5°	1730.2	1725.4	1715.8	1725.4	1717.7
25°	1685.1	1679.3	1668.7	1676.4	1669.7
27.5°	1633.2	1625.5	1615.9	1621.7	1617.9
30°	1570.8	1561.2	1554.5	1554.5	1547.8
32.5°	1502.6	1495.9	1484.4	1477.7	1469.0
35°	1424.9	1415.3	1398.9	1386.5	1367.3
37.5°	1341.3	1329.8	1309.6	1278.0	1252.0
40°	1247.2	1232.8	1215.6	1153.1	1106.1
42.5°	1146.4	1143.5	1113.8	1007.2	941.9
45°	1039.8	1043.7	1000.5	857.4	797.9
47.5°	932.3	945.8	867.0	726.8	696.1
50°	838.2	843.0	738.4	630.8	613.5
52.5°	741.2	733.6	629.9	555.0	542.5
55°	652.9	622.2	540.6	483.9	483.0
57.5°	575.1	518.5	461.8	419.6	424.4
60°	493.5	430.1	387.9	364.9	371.6
62.5°	421.5	361.0	323.6	316.9	328.4
65°	365.8	303.4	263.1	280.4	290.0
67.5°	313.0	260.2	214.1	255.4	259.2
70°	264.0	225.6	180.5	235.2	236.2
72.5°	223.7	199.7	156.5	213.2	216.0
75°	194.9	173.8	144.0	190.1	199.7
77.5°	170.9	148.8	133.5	164.2	180.5
80°	145.0	120.0	121.9	137.3	153.6
82.5°	111.4	93.1	97.0	113.3	124.8
85°	75.9	72.0	65.3	84.5	90.3
87.5°	40.3	38.4	33.6	48.0	45.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)