

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: P291135

Luminaire Tested: **14GR-LD5-40-A-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291135
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-6500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 90 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3924.0 lumens
Efficiency: N/A
Efficacy: 111.3 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

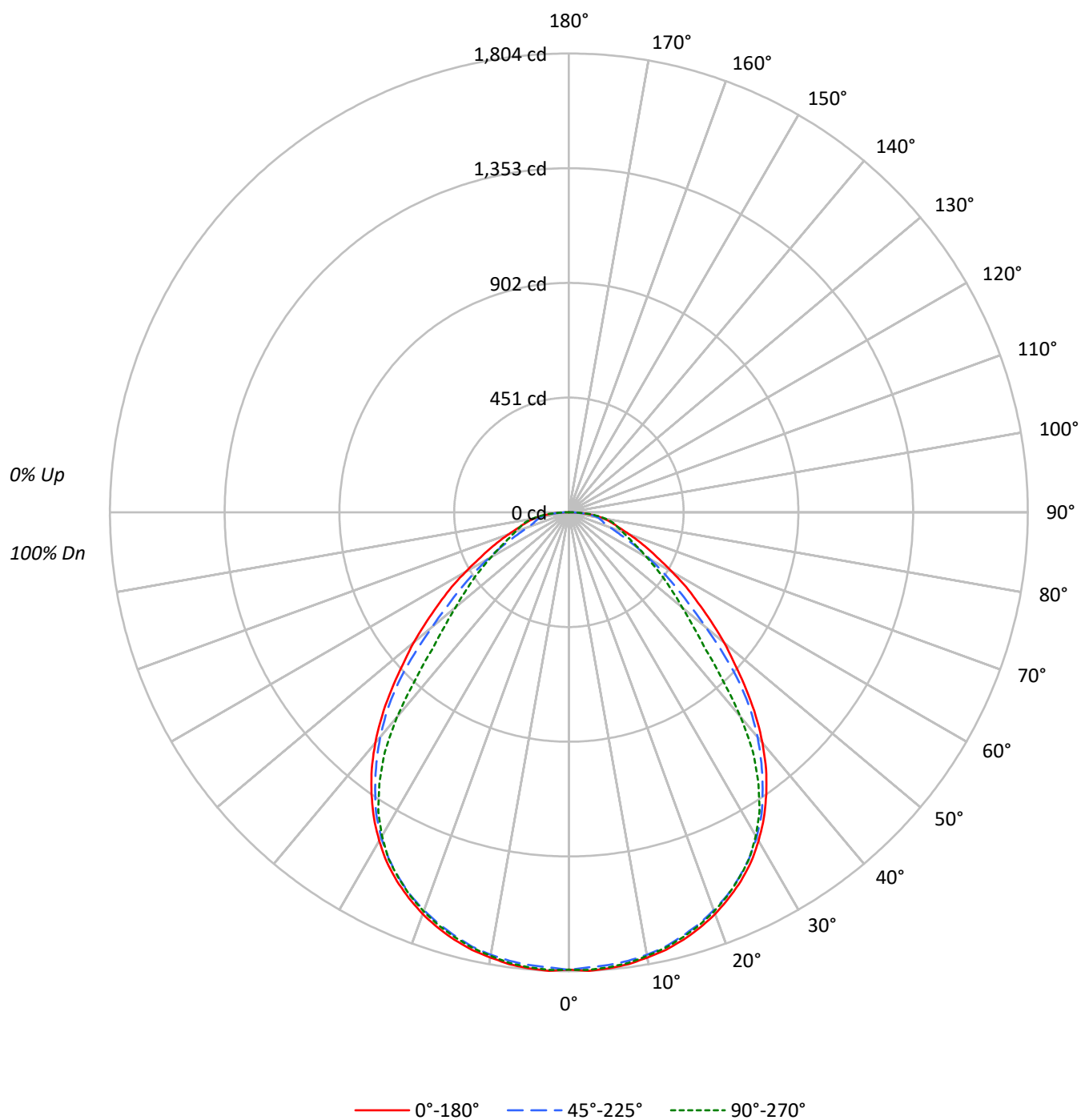
Input Watts (W): 35.247
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4839	4839	4839
5°	4862	4825	4850
10°	4856	4826	4839
15°	4847	4804	4819
20°	4813	4768	4781
25°	4749	4703	4706
30°	4633	4585	4565
35°	4443	4362	4263
40°	4159	4053	3688
45°	3756	3614	2882
50°	3331	2934	2438
55°	2907	2407	2151
60°	2521	1982	1898
65°	2211	1590	1752
70°	1972	1348	1764
75°	1923	1421	1971
80°	2132	1793	2259
85°	2223	1914	2646



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.6	4.3
10°-20°	488.7	12.5
20°-30°	731.1	18.6
30°-40°	825.3	21.0
40°-50°	700.2	17.8
50°-60°	473.7	12.1
60°-70°	282.8	7.2
70°-80°	177.1	4.5
80°-90°	74.5	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°	1390.5	35.4
0°-40°	2215.8	56.5
0°-60°	3389.7	86.4
0°-90°	3924.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3924.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1798	1798	1798	1798	1798	
5°	1800	1794	1786	1799	1795	171
15°	1740	1736	1724	1736	1730	491
25°	1600	1594	1584	1591	1585	735
35°	1352	1343	1328	1316	1298	843
45°	987	991	950	814	757	761
55°	620	591	513	459	458	558
65°	347	288	250	266	275	347
75°	185	165	137	180	190	199
85°	72	68	62	80	86	78
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1798.2	1798.2	1798.2	1798.2	1798.2
2.5°	1804.5	1799.1	1790.9	1801.8	1800.9
5°	1800.0	1794.5	1786.3	1799.1	1795.4
7.5°	1791.8	1787.2	1779.0	1790.9	1787.2
10°	1777.2	1773.5	1766.3	1776.3	1770.8
12.5°	1761.7	1759.0	1749.8	1759.0	1753.5
15°	1739.8	1736.2	1724.3	1736.2	1729.8
17.5°	1712.5	1707.9	1697.9	1707.9	1702.5
20°	1680.6	1675.1	1665.1	1675.1	1669.6
22.5°	1642.3	1637.7	1628.6	1637.7	1630.5
25°	1599.5	1594.0	1584.0	1591.3	1584.9
27.5°	1550.3	1543.0	1533.9	1539.3	1535.7
30°	1491.0	1481.9	1475.5	1475.5	1469.1
32.5°	1426.3	1419.9	1409.0	1402.6	1394.4
35°	1352.5	1343.4	1327.9	1316.0	1297.8
37.5°	1273.2	1262.3	1243.1	1213.0	1188.4
40°	1183.9	1170.2	1153.8	1094.6	1049.9
42.5°	1088.2	1085.5	1057.2	956.0	894.1
45°	987.0	990.7	949.7	813.9	757.4
47.5°	884.9	897.7	823.0	689.9	660.7
50°	795.6	800.2	700.9	598.8	582.4
52.5°	703.6	696.3	597.9	526.8	514.9
55°	619.7	590.6	513.1	459.3	458.4
57.5°	545.9	492.1	438.4	398.3	402.8
60°	468.4	408.3	368.2	346.3	352.7
62.5°	400.1	342.7	307.1	300.8	311.7
65°	347.2	288.0	249.7	266.1	275.2
67.5°	297.1	247.0	203.2	242.4	246.1
70°	250.6	214.2	171.3	223.3	224.2
72.5°	212.4	189.6	148.6	202.3	205.1
75°	185.0	165.0	136.7	180.5	189.6
77.5°	162.2	141.3	126.7	155.8	171.3
80°	137.6	113.9	115.7	130.3	145.8
82.5°	105.7	88.4	92.0	107.5	118.5
85°	72.0	68.4	62.0	80.2	85.7
87.5°	38.3	36.5	31.9	45.6	42.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)