

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: P291031

Luminaire Tested: **14GR-LD5-40-A-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291031
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-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: 4038.0 lumens
Efficiency: N/A
Efficacy: 119.3 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

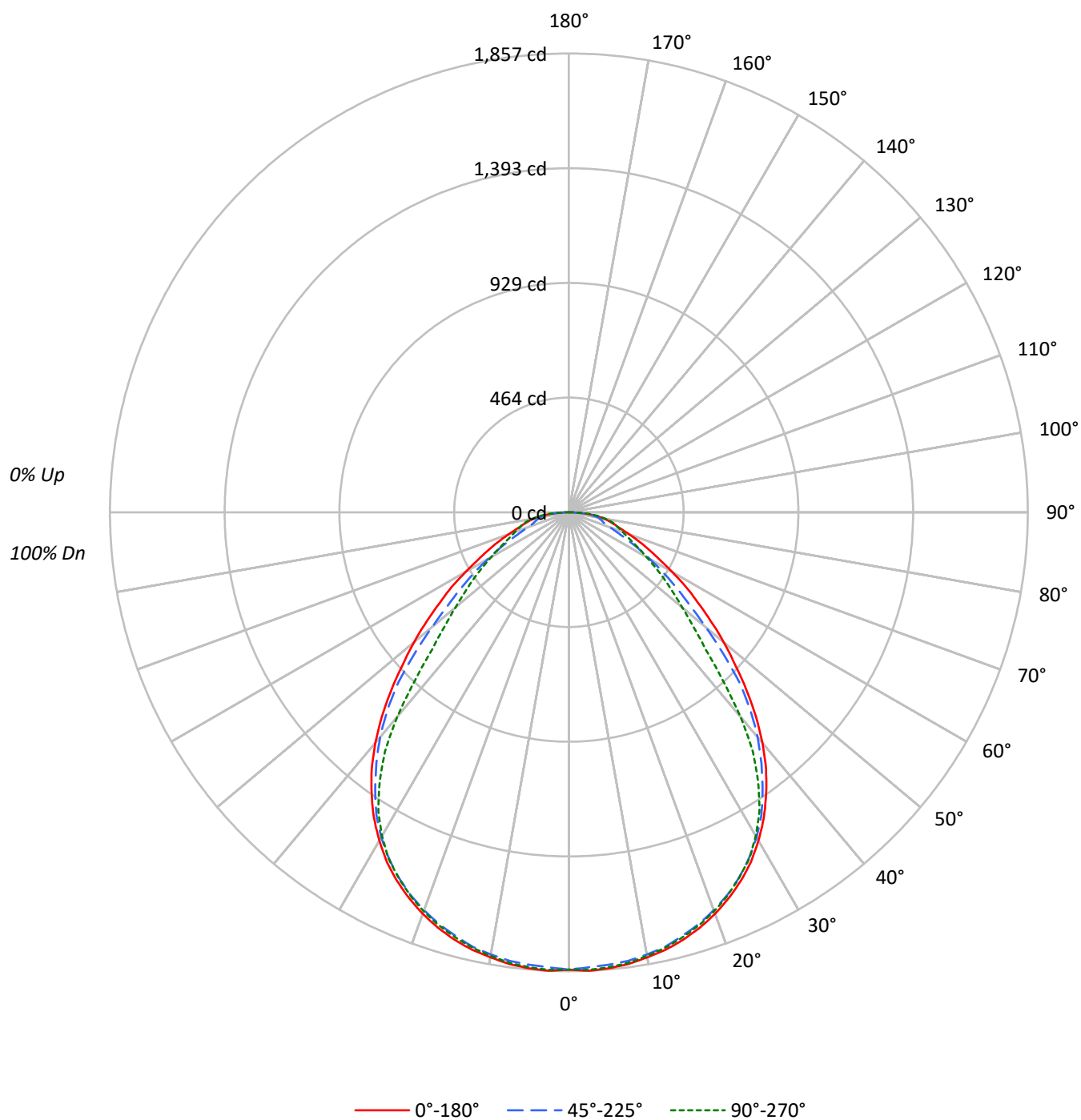
Input Watts (W): 33.852
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4979	4979	4979
5°	5004	4965	4991
10°	4997	4967	4979
15°	4988	4943	4959
20°	4952	4907	4920
25°	4887	4840	4842
30°	4767	4718	4698
35°	4572	4489	4387
40°	4280	4171	3795
45°	3865	3719	2966
50°	3427	3019	2509
55°	2992	2477	2213
60°	2595	2039	1954
65°	2275	1636	1803
70°	2029	1387	1815
75°	1980	1463	2028
80°	2194	1846	2326
85°	2288	1970	2723



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.6	4.3
10°-20°	502.9	12.5
20°-30°	752.3	18.6
30°-40°	849.3	21.0
40°-50°	720.5	17.8
50°-60°	487.5	12.1
60°-70°	291.0	7.2
70°-80°	182.2	4.5
80°-90°	76.7	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°	1430.9	35.4
0°-40°	2280.1	56.5
0°-60°	3488.1	86.4
0°-90°	4038.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4038.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1850	1850	1850	1850	1850	
5°	1852	1847	1838	1851	1848	176
15°	1790	1787	1774	1787	1780	505
25°	1646	1640	1630	1638	1631	757
35°	1392	1382	1366	1354	1336	867
45°	1016	1019	977	838	779	783
55°	638	608	528	473	472	574
65°	357	296	257	274	283	357
75°	190	170	141	186	195	205
85°	74	70	64	82	88	80
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1850.4	1850.4	1850.4	1850.4	1850.4
2.5°	1857.0	1851.3	1842.9	1854.1	1853.2
5°	1852.3	1846.6	1838.2	1851.3	1847.6
7.5°	1843.8	1839.1	1830.7	1842.9	1839.1
10°	1828.8	1825.1	1817.6	1827.9	1822.3
12.5°	1812.9	1810.1	1800.7	1810.1	1804.4
15°	1790.4	1786.6	1774.4	1786.6	1780.1
17.5°	1762.2	1757.5	1747.2	1757.5	1751.9
20°	1729.4	1723.8	1713.5	1723.8	1718.2
22.5°	1690.0	1685.3	1675.9	1685.3	1677.8
25°	1645.9	1640.3	1630.0	1637.5	1630.9
27.5°	1595.3	1587.8	1578.4	1584.0	1580.3
30°	1534.3	1525.0	1518.4	1518.4	1511.8
32.5°	1467.7	1461.2	1449.9	1443.4	1434.9
35°	1391.8	1382.4	1366.5	1354.3	1335.5
37.5°	1310.2	1298.9	1279.2	1248.3	1223.0
40°	1218.3	1204.2	1187.3	1126.4	1080.4
42.5°	1119.8	1117.0	1087.9	983.8	920.0
45°	1015.7	1019.4	977.2	837.5	779.4
47.5°	910.7	923.8	846.9	710.0	679.9
50°	818.7	823.4	721.2	616.2	599.3
52.5°	724.0	716.5	615.2	542.1	529.9
55°	637.7	607.7	528.0	472.7	471.7
57.5°	561.8	506.4	451.1	409.8	414.5
60°	482.1	420.2	378.9	356.4	363.0
62.5°	411.7	352.6	316.1	309.5	320.7
65°	357.3	296.4	257.0	273.9	283.2
67.5°	305.7	254.2	209.1	249.5	253.2
70°	257.9	220.4	176.3	229.8	230.7
72.5°	218.5	195.1	152.9	208.2	211.0
75°	190.4	169.8	140.7	185.7	195.1
77.5°	166.9	145.4	130.4	160.4	176.3
80°	141.6	117.2	119.1	134.1	150.1
82.5°	108.8	91.0	94.7	110.7	121.9
85°	74.1	70.3	63.8	82.5	88.2
87.5°	39.4	37.5	32.8	46.9	44.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)