

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: P291043

Luminaire Tested: **14GR-LD5-43-A-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291043
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-LD5-43-A-UNV-L82765-W2A1-U-5000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4541.0 lumens
Efficiency: N/A
Efficacy: 121.5 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

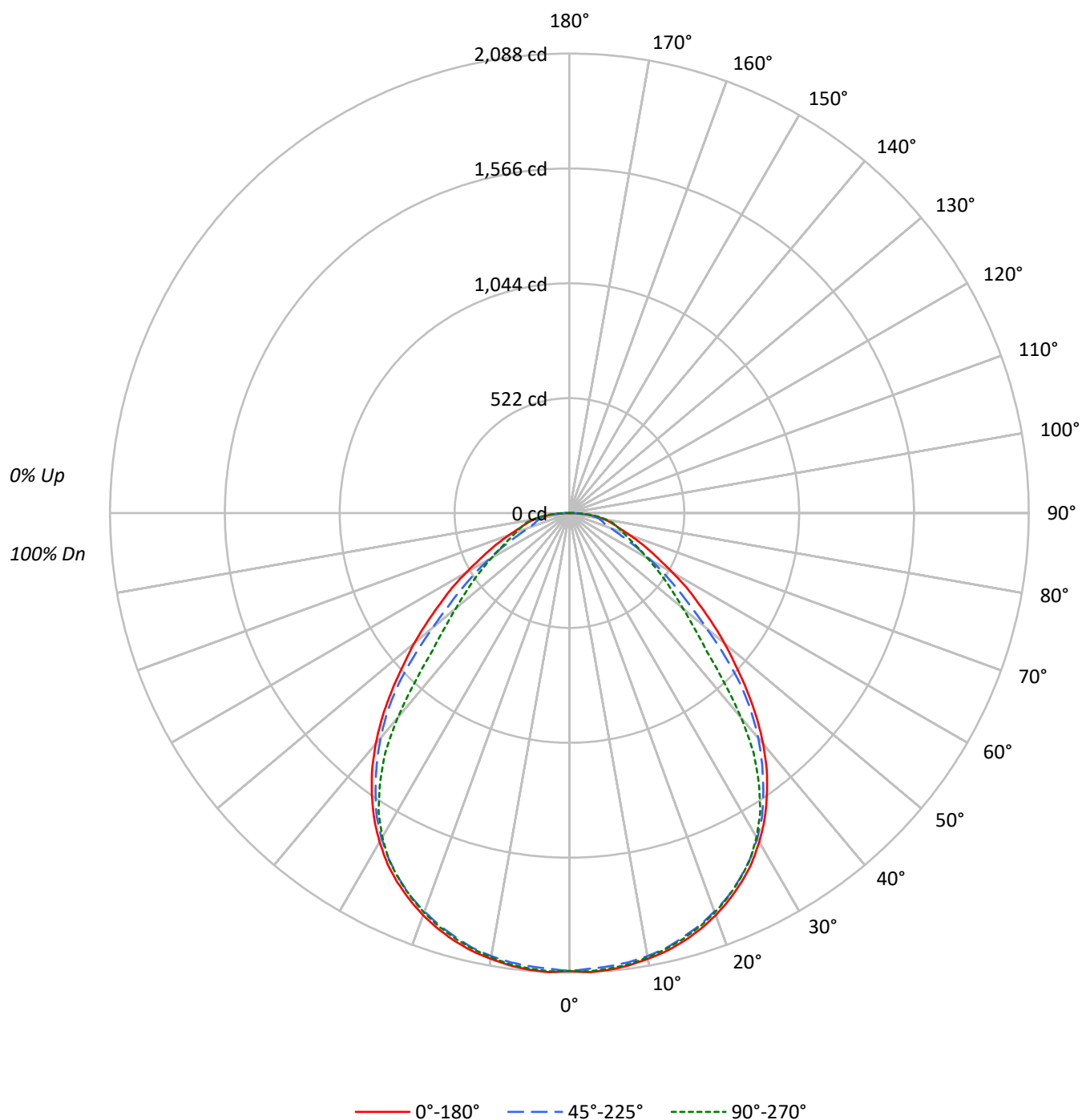
Input Watts (W): 37.386
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5600	5600	5600
5°	5627	5584	5612
10°	5620	5585	5599
15°	5609	5559	5577
20°	5569	5518	5533
25°	5496	5442	5446
30°	5362	5306	5283
35°	5141	5048	4934
40°	4813	4690	4268
45°	4347	4182	3335
50°	3854	3396	2821
55°	3365	2786	2489
60°	2918	2293	2197
65°	2558	1840	2028
70°	2282	1560	2042
75°	2226	1645	2281
80°	2469	2075	2614
85°	2572	2214	3060



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	197.4	4.3
10°-20°	565.6	12.5
20°-30°	846.1	18.6
30°-40°	955.1	21.0
40°-50°	810.2	17.8
50°-60°	548.2	12.1
60°-70°	327.2	7.2
70°-80°	204.9	4.5
80°-90°	86.2	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°	1609.1	35.4
0°-40°	2564.2	56.5
0°-60°	3922.6	86.4
0°-90°	4541.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4541.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2081	2081	2081	2081	2081	
5°	2083	2077	2067	2082	2078	198
15°	2013	2009	1996	2009	2002	568
25°	1851	1845	1833	1842	1834	851
35°	1565	1555	1537	1523	1502	975
45°	1142	1146	1099	942	876	880
55°	717	683	594	532	530	646
65°	402	333	289	308	318	402
75°	214	191	158	209	219	230
85°	83	79	72	93	99	90
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2080.9	2080.9	2080.9	2080.9	2080.9
2.5°	2088.3	2081.9	2072.4	2085.1	2084.1
5°	2083.0	2076.7	2067.2	2081.9	2077.7
7.5°	2073.5	2068.2	2058.7	2072.4	2068.2
10°	2056.6	2052.4	2044.0	2055.6	2049.2
12.5°	2038.7	2035.5	2025.0	2035.5	2029.2
15°	2013.4	2009.2	1995.5	2009.2	2001.8
17.5°	1981.7	1976.5	1964.9	1976.5	1970.1
20°	1944.8	1938.5	1926.9	1938.5	1932.2
22.5°	1900.5	1895.3	1884.7	1895.3	1886.8
25°	1851.0	1844.6	1833.0	1841.5	1834.1
27.5°	1794.0	1785.6	1775.0	1781.4	1777.1
30°	1725.5	1714.9	1707.5	1707.5	1700.1
32.5°	1650.6	1643.2	1630.5	1623.2	1613.7
35°	1565.1	1554.6	1536.7	1523.0	1501.9
37.5°	1473.4	1460.7	1438.6	1403.8	1375.3
40°	1370.0	1354.2	1335.2	1266.7	1215.0
42.5°	1259.3	1256.1	1223.4	1106.4	1034.6
45°	1142.2	1146.4	1099.0	941.8	876.4
47.5°	1024.1	1038.9	952.4	798.4	764.6
50°	920.7	926.0	811.1	692.9	673.9
52.5°	814.2	805.8	691.9	609.6	595.9
55°	717.2	683.4	593.8	531.6	530.5
57.5°	631.8	569.5	507.3	460.9	466.2
60°	542.1	472.5	426.1	400.8	408.2
62.5°	463.0	396.6	355.4	348.0	360.7
65°	401.8	333.3	289.0	308.0	318.5
67.5°	343.8	285.8	235.2	280.5	284.8
70°	290.0	247.9	198.3	258.4	259.5
72.5°	245.7	219.4	171.9	234.1	237.3
75°	214.1	190.9	158.2	208.8	219.4
77.5°	187.7	163.5	146.6	180.4	198.3
80°	159.3	131.8	133.9	150.8	168.7
82.5°	122.3	102.3	106.5	124.5	137.1
85°	83.3	79.1	71.7	92.8	99.1
87.5°	44.3	42.2	36.9	52.7	49.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)