

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: P290979

Luminaire Tested: **14GR-LD5-43-A-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290979
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-L83050-W2A1-U-3000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4168.0 lumens
Efficiency: N/A
Efficacy: 114.3 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

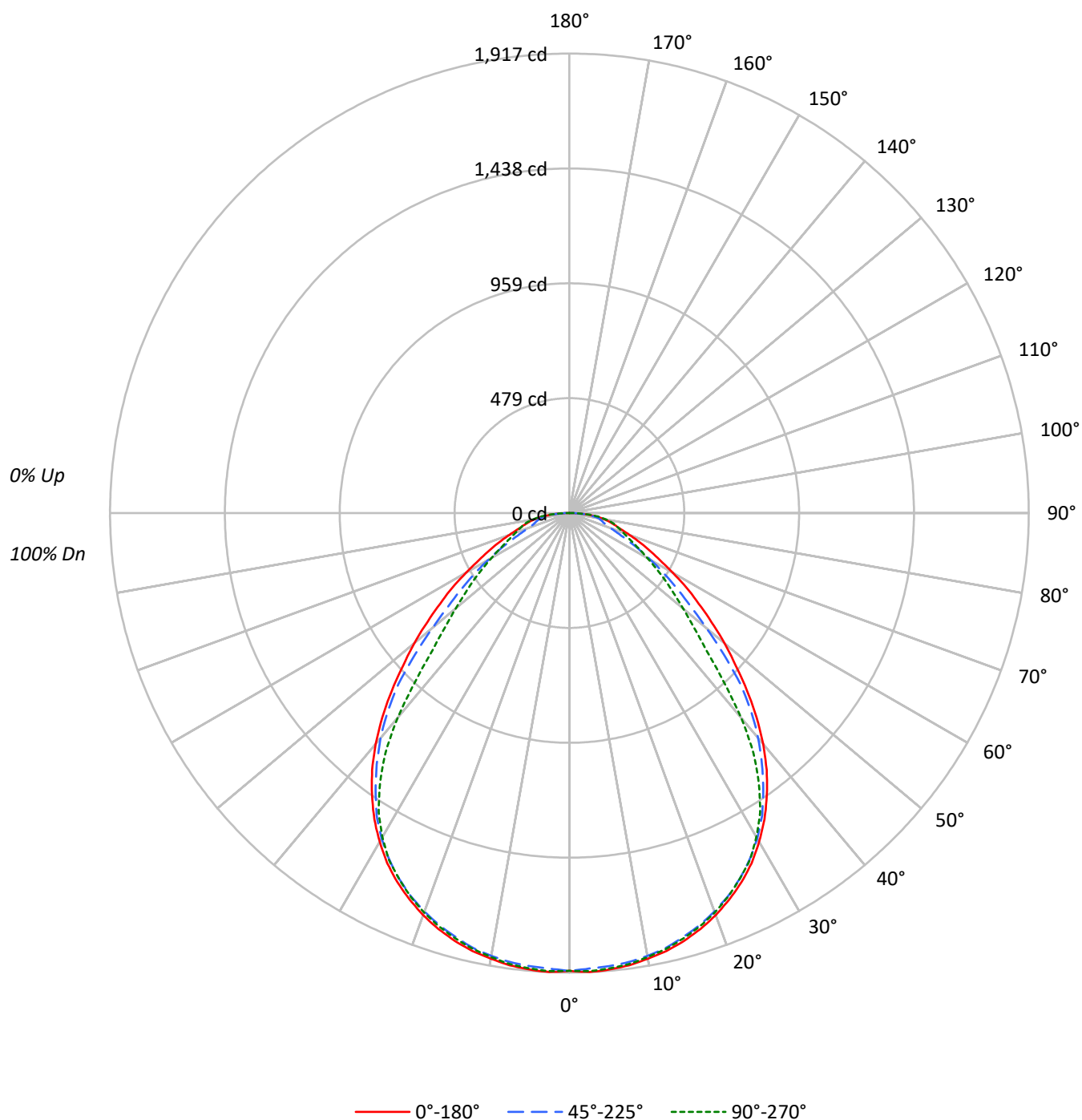
Input Watts (W): 36.456
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	5140	5140	5140
5°	5165	5125	5152
10°	5158	5126	5140
15°	5148	5103	5119
20°	5112	5065	5079
25°	5044	4996	4998
30°	4921	4870	4849
35°	4719	4633	4528
40°	4417	4305	3918
45°	3990	3839	3061
50°	3538	3116	2590
55°	3088	2557	2284
60°	2678	2105	2016
65°	2348	1689	1862
70°	2094	1432	1873
75°	2043	1510	2094
80°	2266	1905	2400
85°	2362	2032	2810



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.2	4.3
10°-20°	519.1	12.5
20°-30°	776.6	18.6
30°-40°	876.6	21.0
40°-50°	743.7	17.8
50°-60°	503.2	12.1
60°-70°	300.4	7.2
70°-80°	188.1	4.5
80°-90°	79.1	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°	1476.9	35.4
0°-40°	2353.5	56.5
0°-60°	3600.4	86.4
0°-90°	4168.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4168.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1910	1910	1910	1910	1910	
5°	1912	1906	1897	1911	1907	182
15°	1848	1844	1832	1844	1837	521
25°	1699	1693	1682	1690	1683	781
35°	1437	1427	1410	1398	1378	895
45°	1048	1052	1009	864	804	808
55°	658	627	545	488	487	593
65°	369	306	265	283	292	369
75°	196	175	145	192	201	211
85°	76	73	66	85	91	82
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1910.0	1910.0	1910.0	1910.0	1910.0
2.5°	1916.7	1910.9	1902.2	1913.8	1912.9
5°	1911.9	1906.1	1897.4	1910.9	1907.1
7.5°	1903.2	1898.3	1889.6	1902.2	1898.3
10°	1887.7	1883.8	1876.1	1886.7	1880.9
12.5°	1871.2	1868.3	1858.7	1868.3	1862.5
15°	1848.0	1844.1	1831.6	1844.1	1837.4
17.5°	1819.0	1814.1	1803.5	1814.1	1808.3
20°	1785.1	1779.3	1768.6	1779.3	1773.5
22.5°	1744.4	1739.6	1729.9	1739.6	1731.8
25°	1698.9	1693.1	1682.5	1690.2	1683.4
27.5°	1646.7	1638.9	1629.2	1635.0	1631.2
30°	1583.7	1574.0	1567.3	1567.3	1560.5
32.5°	1515.0	1508.2	1496.6	1489.8	1481.1
35°	1436.6	1426.9	1410.4	1397.9	1378.5
37.5°	1352.4	1340.7	1320.4	1288.5	1262.3
40°	1257.5	1243.0	1225.6	1162.6	1115.2
42.5°	1155.9	1152.9	1122.9	1015.5	949.7
45°	1048.4	1052.3	1008.7	864.5	804.4
47.5°	940.0	953.5	874.1	732.8	701.8
50°	845.1	849.9	744.4	636.0	618.6
52.5°	747.3	739.6	635.0	559.5	546.9
55°	658.3	627.3	545.0	487.9	486.9
57.5°	579.9	522.7	465.6	423.0	427.9
60°	497.6	433.7	391.1	367.9	374.6
62.5°	425.0	364.0	326.2	319.5	331.1
65°	368.8	305.9	265.2	282.7	292.4
67.5°	315.6	262.3	215.9	257.5	261.4
70°	266.2	227.5	182.0	237.2	238.1
72.5°	225.6	201.4	157.8	214.9	217.8
75°	196.5	175.2	145.2	191.7	201.4
77.5°	172.3	150.0	134.6	165.5	182.0
80°	146.2	121.0	122.9	138.4	154.9
82.5°	112.3	93.9	97.8	114.2	125.8
85°	76.5	72.6	65.8	85.2	91.0
87.5°	40.7	38.7	33.9	48.4	45.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)