

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: P290982

Luminaire Tested: **14GR-LD5-43-A-UNV-L83050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290982
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-4500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4675.0 lumens
Efficiency: N/A
Efficacy: 122.0 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

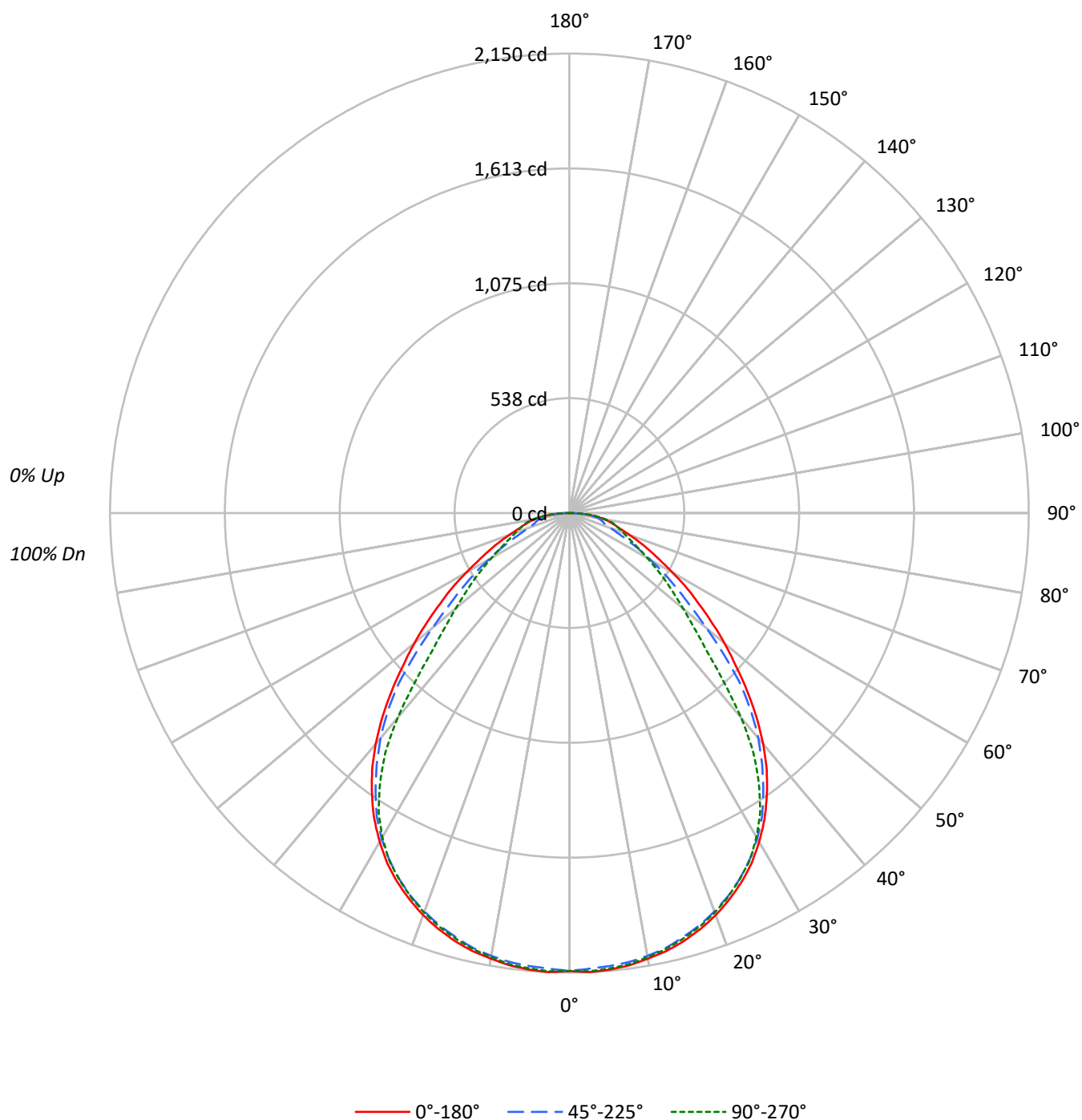
Input Watts (W): 38.316
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	5765	5765	5765
5°	5793	5749	5778
10°	5786	5750	5765
15°	5775	5723	5741
20°	5734	5681	5696
25°	5658	5603	5606
30°	5520	5462	5439
35°	5293	5197	5079
40°	4955	4829	4394
45°	4475	4306	3434
50°	3968	3496	2905
55°	3464	2868	2563
60°	3004	2361	2261
65°	2634	1894	2088
70°	2349	1606	2102
75°	2292	1694	2348
80°	2541	2137	2692
85°	2649	2279	3152



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	203.3	4.3
10°-20°	582.3	12.5
20°-30°	871.0	18.6
30°-40°	983.3	21.0
40°-50°	834.1	17.8
50°-60°	564.4	12.1
60°-70°	336.9	7.2
70°-80°	211.0	4.5
80°-90°	88.8	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°	1656.6	35.4
0°-40°	2639.8	56.5
0°-60°	4038.4	86.4
0°-90°	4675.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4675.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2142	2142	2142	2142	2142	
5°	2144	2138	2128	2143	2139	204
15°	2073	2068	2054	2068	2061	585
25°	1906	1899	1887	1896	1888	876
35°	1611	1600	1582	1568	1546	1004
45°	1176	1180	1131	970	902	906
55°	738	704	611	547	546	665
65°	414	343	298	317	328	413
75°	220	196	163	215	226	237
85°	86	81	74	96	102	92
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2142.3	2142.3	2142.3	2142.3	2142.3
2.5°	2149.9	2143.4	2133.6	2146.6	2145.5
5°	2144.5	2137.9	2128.2	2143.4	2139.0
7.5°	2134.7	2129.3	2119.5	2133.6	2129.3
10°	2117.3	2113.0	2104.3	2116.2	2109.7
12.5°	2098.9	2095.6	2084.7	2095.6	2089.1
15°	2072.8	2068.5	2054.3	2068.5	2060.9
17.5°	2040.2	2034.8	2022.9	2034.8	2028.3
20°	2002.2	1995.7	1983.8	1995.7	1989.2
22.5°	1956.6	1951.2	1940.3	1951.2	1942.5
25°	1905.6	1899.1	1887.1	1895.8	1888.2
27.5°	1847.0	1838.3	1827.4	1833.9	1829.6
30°	1776.4	1765.5	1757.9	1757.9	1750.3
32.5°	1699.3	1691.7	1678.7	1671.1	1661.3
35°	1611.3	1600.5	1582.0	1567.9	1546.2
37.5°	1516.9	1503.8	1481.0	1445.2	1415.9
40°	1410.5	1394.2	1374.6	1304.1	1250.8
42.5°	1296.5	1293.2	1259.5	1139.0	1065.2
45°	1175.9	1180.3	1131.4	969.6	902.3
47.5°	1054.3	1069.5	980.5	822.0	787.2
50°	947.9	953.3	835.0	713.4	693.8
52.5°	838.2	829.6	712.3	627.6	613.5
55°	738.3	703.6	611.3	547.2	546.2
57.5°	650.4	586.3	522.3	474.5	479.9
60°	558.1	486.4	438.7	412.6	420.2
62.5°	476.7	408.3	365.9	358.3	371.3
65°	413.7	343.1	297.5	317.1	327.9
67.5°	354.0	294.3	242.1	288.8	293.2
70°	298.6	255.2	204.1	266.0	267.1
72.5°	253.0	225.8	177.0	241.0	244.3
75°	220.4	196.5	162.9	215.0	225.8
77.5°	193.3	168.3	150.9	185.7	204.1
80°	164.0	135.7	137.9	155.3	173.7
82.5°	126.0	105.3	109.7	128.1	141.2
85°	85.8	81.4	73.8	95.6	102.1
87.5°	45.6	43.4	38.0	54.3	51.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)