

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: P291142

Luminaire Tested: **14GR-LD5-43-A-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291142
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-L92765-W2A1-U-5500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4140.0 lumens
Efficiency: N/A
Efficacy: 110.2 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

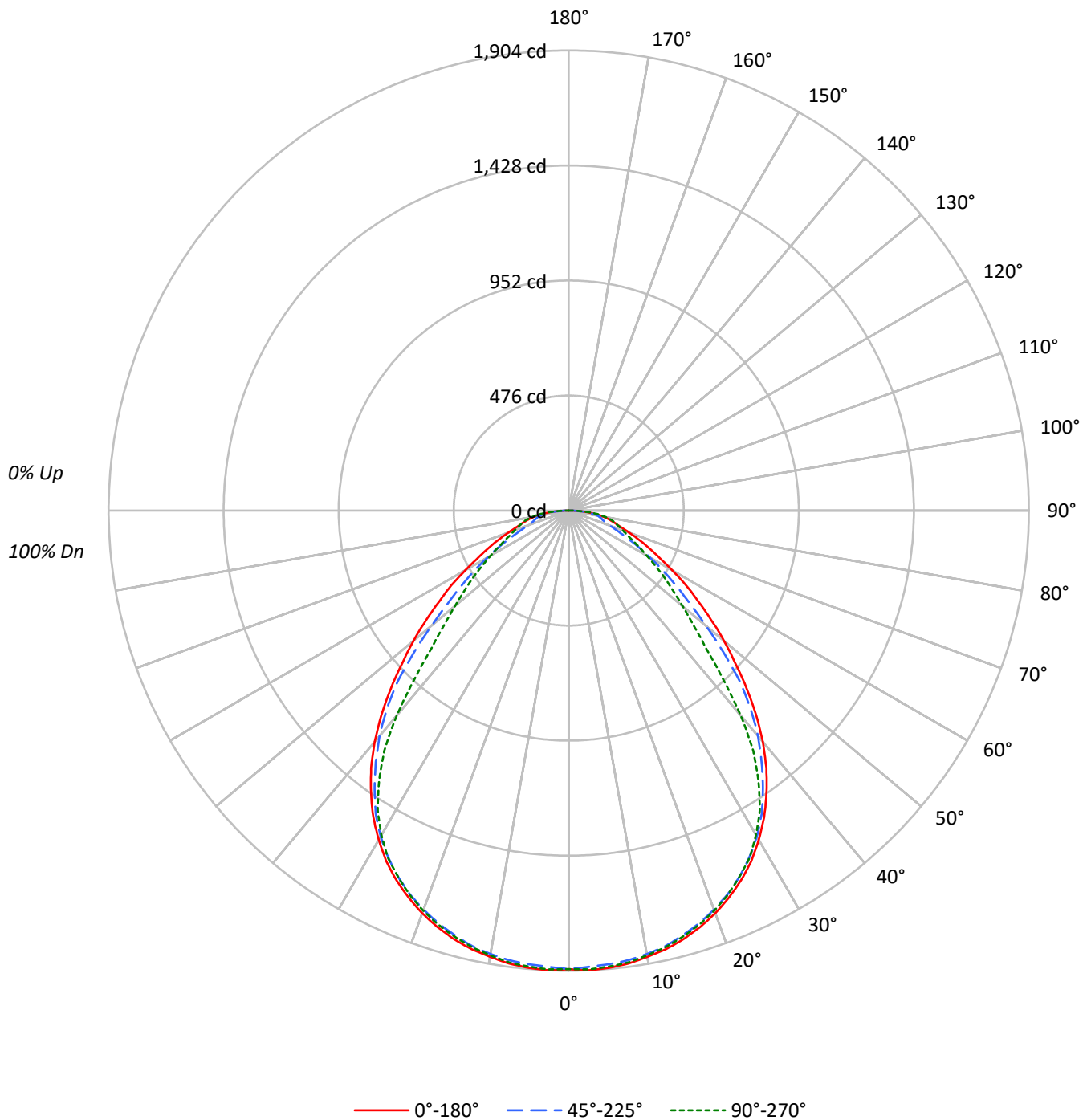
Input Watts (W): 37.572
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	5105	5105	5105
5°	5130	5091	5117
10°	5123	5092	5105
15°	5114	5068	5084
20°	5078	5031	5045
25°	5010	4962	4965
30°	4888	4837	4816
35°	4687	4602	4498
40°	4388	4276	3891
45°	3963	3813	3041
50°	3514	3095	2572
55°	3068	2540	2269
60°	2660	2091	2003
65°	2332	1678	1849
70°	2080	1423	1861
75°	2030	1499	2079
80°	2250	1892	2383
85°	2347	2019	2791



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.0	4.3
10°-20°	515.6	12.5
20°-30°	771.4	18.6
30°-40°	870.7	21.0
40°-50°	738.7	17.8
50°-60°	499.8	12.1
60°-70°	298.3	7.2
70°-80°	186.8	4.5
80°-90°	78.6	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°	1467.0	35.4
0°-40°	2337.7	56.5
0°-60°	3576.2	86.4
0°-90°	4140.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4140.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1897	1897	1897	1897	1897	
5°	1899	1893	1885	1898	1894	181
15°	1836	1832	1819	1832	1825	518
25°	1688	1682	1671	1679	1672	776
35°	1427	1417	1401	1388	1369	889
45°	1041	1045	1002	859	799	802
55°	654	623	541	485	484	589
65°	366	304	264	281	290	366
75°	195	174	144	190	200	210
85°	76	72	65	85	90	82
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1897.1	1897.1	1897.1	1897.1	1897.1
2.5°	1903.9	1898.1	1889.4	1901.0	1900.0
5°	1899.1	1893.3	1884.6	1898.1	1894.2
7.5°	1890.4	1885.6	1876.9	1889.4	1885.6
10°	1875.0	1871.2	1863.5	1874.1	1868.3
12.5°	1858.7	1855.8	1846.2	1855.8	1850.0
15°	1835.6	1831.7	1819.2	1831.7	1825.0
17.5°	1806.7	1801.9	1791.4	1801.9	1796.2
20°	1773.1	1767.3	1756.7	1767.3	1761.6
22.5°	1732.7	1727.9	1718.3	1727.9	1720.2
25°	1687.5	1681.7	1671.2	1678.9	1672.1
27.5°	1635.6	1627.9	1618.3	1624.1	1620.2
30°	1573.1	1563.5	1556.7	1556.7	1550.0
32.5°	1504.8	1498.1	1486.6	1479.8	1471.2
35°	1426.9	1417.3	1401.0	1388.5	1369.2
37.5°	1343.3	1331.7	1311.5	1279.8	1253.9
40°	1249.0	1234.6	1217.3	1154.8	1107.7
42.5°	1148.1	1145.2	1115.4	1008.7	943.3
45°	1041.4	1045.2	1001.9	858.7	799.0
47.5°	933.7	947.1	868.3	727.9	697.1
50°	839.4	844.2	739.4	631.7	614.4
52.5°	742.3	734.6	630.8	555.8	543.3
55°	653.9	623.1	541.4	484.6	483.7
57.5°	576.0	519.2	462.5	420.2	425.0
60°	494.2	430.8	388.5	365.4	372.1
62.5°	422.1	361.5	324.0	317.3	328.8
65°	366.3	303.8	263.5	280.8	290.4
67.5°	313.5	260.6	214.4	255.8	259.6
70°	264.4	226.0	180.8	235.6	236.5
72.5°	224.0	200.0	156.7	213.5	216.3
75°	195.2	174.0	144.2	190.4	200.0
77.5°	171.2	149.0	133.7	164.4	180.8
80°	145.2	120.2	122.1	137.5	153.8
82.5°	111.5	93.3	97.1	113.5	125.0
85°	76.0	72.1	65.4	84.6	90.4
87.5°	40.4	38.5	33.7	48.1	45.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)