

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: P291140

Luminaire Tested: **14GR-LD5-43-A-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291140
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-4500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3996.0 lumens
Efficiency: N/A
Efficacy: 107.4 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

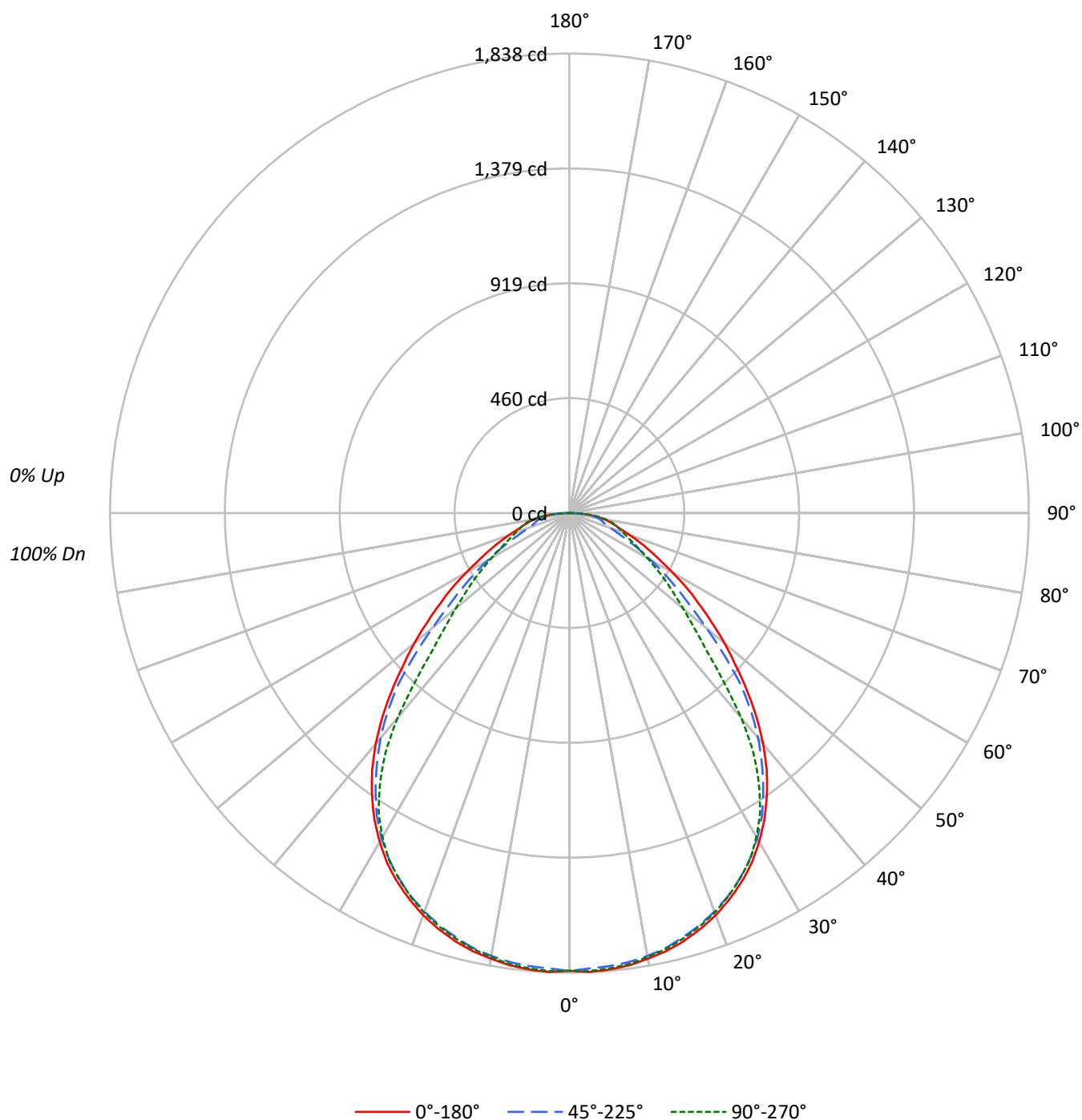
Input Watts (W): 37.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4927	4927	4927
5°	4951	4914	4939
10°	4945	4915	4928
15°	4936	4892	4907
20°	4901	4856	4869
25°	4836	4789	4792
30°	4718	4669	4649
35°	4525	4442	4342
40°	4235	4128	3756
45°	3825	3680	2935
50°	3392	2988	2483
55°	2961	2451	2190
60°	2567	2018	1933
65°	2252	1619	1785
70°	2008	1373	1796
75°	1959	1447	2007
80°	2171	1827	2301
85°	2263	1948	2692



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.7	4.3
10°-20°	497.7	12.5
20°-30°	744.5	18.6
30°-40°	840.4	21.0
40°-50°	713.0	17.8
50°-60°	482.4	12.1
60°-70°	288.0	7.2
70°-80°	180.3	4.5
80°-90°	75.9	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°	1416.0	35.4
0°-40°	2256.4	56.5
0°-60°	3451.9	86.4
0°-90°	3996.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3996.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1831	1831	1831	1831	1831	
5°	1833	1827	1819	1832	1828	174
15°	1772	1768	1756	1768	1762	500
25°	1629	1623	1613	1620	1614	749
35°	1377	1368	1352	1340	1322	858
45°	1005	1009	967	829	771	775
55°	631	601	522	468	467	568
65°	354	293	254	271	280	353
75°	188	168	139	184	193	203
85°	73	70	63	82	87	79
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1831.1	1831.1	1831.1	1831.1	1831.1
2.5°	1837.6	1832.1	1823.7	1834.9	1833.9
5°	1833.0	1827.4	1819.1	1832.1	1828.4
7.5°	1824.6	1820.0	1811.7	1823.7	1820.0
10°	1809.8	1806.1	1798.7	1808.9	1803.3
12.5°	1794.0	1791.2	1782.0	1791.2	1785.7
15°	1771.7	1768.0	1756.0	1768.0	1761.5
17.5°	1743.9	1739.3	1729.1	1739.3	1733.7
20°	1711.4	1705.9	1695.6	1705.9	1700.3
22.5°	1672.4	1667.8	1658.5	1667.8	1660.4
25°	1628.8	1623.2	1613.0	1620.5	1614.0
27.5°	1578.7	1571.3	1562.0	1567.6	1563.9
30°	1518.4	1509.1	1502.6	1502.6	1496.1
32.5°	1452.5	1446.0	1434.8	1428.3	1420.0
35°	1377.3	1368.0	1352.2	1340.2	1321.6
37.5°	1296.6	1285.4	1265.9	1235.3	1210.2
40°	1205.6	1191.7	1175.0	1114.6	1069.2
42.5°	1108.2	1105.4	1076.6	973.6	910.5
45°	1005.1	1008.8	967.1	828.8	771.3
47.5°	901.2	914.2	838.1	702.6	672.9
50°	810.2	814.9	713.7	609.8	593.1
52.5°	716.5	709.1	608.8	536.4	524.4
55°	631.1	601.4	522.5	467.8	466.8
57.5°	555.9	501.2	446.4	405.6	410.2
60°	477.0	415.8	375.0	352.7	359.2
62.5°	407.4	349.0	312.8	306.3	317.4
65°	353.6	293.3	254.3	271.0	280.3
67.5°	302.6	251.5	207.0	246.9	250.6
70°	255.2	218.1	174.5	227.4	228.3
72.5°	216.2	193.0	151.3	206.0	208.8
75°	188.4	168.0	139.2	183.8	193.0
77.5°	165.2	143.9	129.0	158.7	174.5
80°	140.1	116.0	117.9	132.7	148.5
82.5°	107.7	90.0	93.7	109.5	120.7
85°	73.3	69.6	63.1	81.7	87.2
87.5°	39.0	37.1	32.5	46.4	43.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)