

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: P213415

Luminaire Tested: **14GR-LD5-43-A-UNV-L935-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P213415
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33314)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/12/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-43-A-UNV-L935-CD1-U
Description: METALUX GR 1X4 LED TROFFER WITH A LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3680.5 lumens
Efficiency: N/A
Efficacy: 87.6 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.21 / 1.26
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

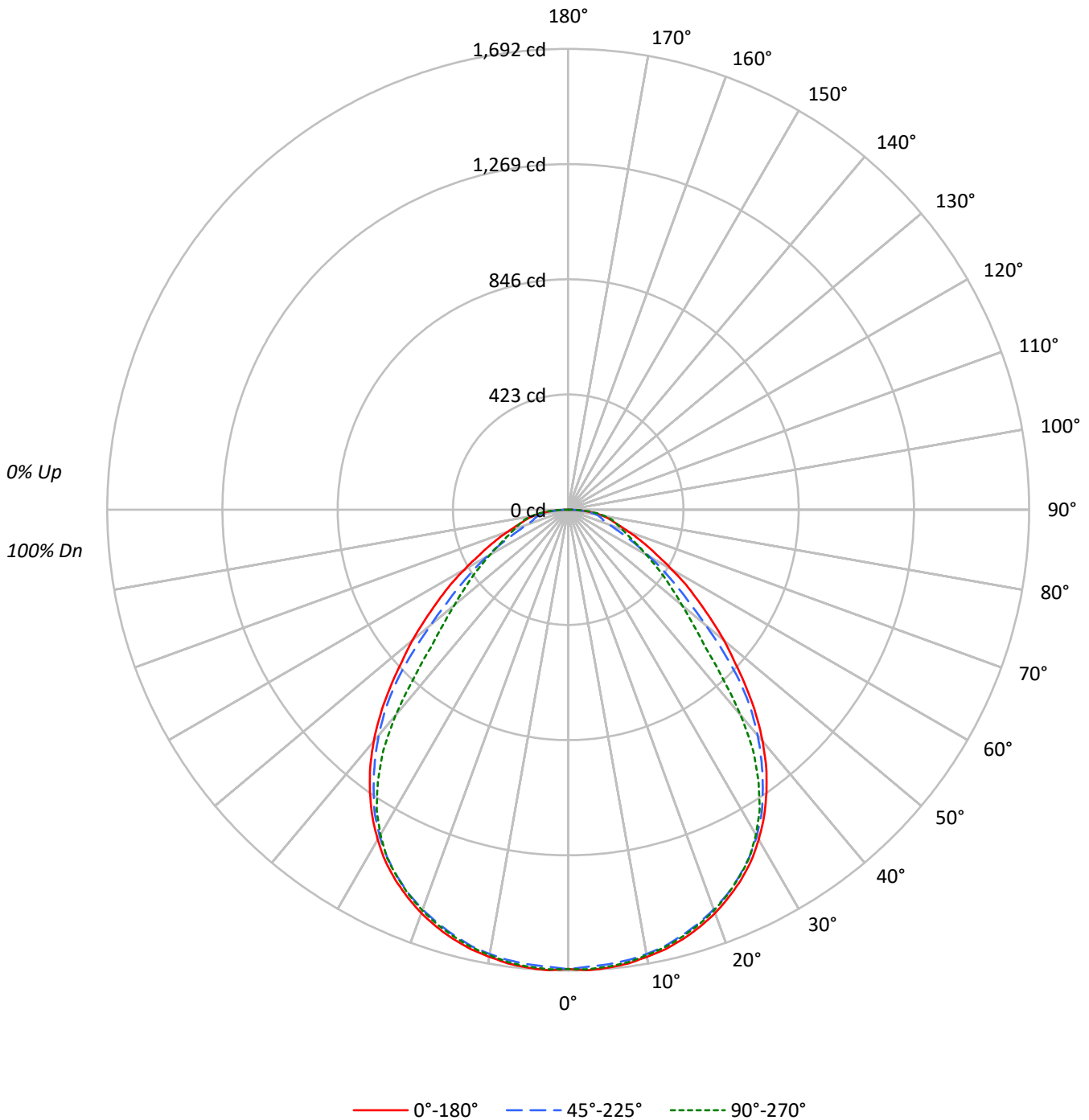
Input Watts (W): 42
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10	50	30	10	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					100			
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86					86			
2	101	94	88	83	99	92	86	82	88	84	80	85	81	78	82	79	76	74					74			
3	93	84	76	71	91	82	75	70	79	74	69	77	72	68	74	70	66	64					64			
4	86	75	67	61	84	74	67	61	72	65	60	69	64	59	67	62	58	56					56			
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50					50			
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46	44					44			
7	69	57	48	43	67	56	48	43	54	47	42	53	47	42	52	46	42	40					40			
8	65	52	44	38	63	51	44	38	50	43	38	49	43	38	48	42	38	36					36			
9	61	48	40	35	59	47	40	35	46	39	35	45	39	35	44	39	34	33					33			
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	36	31	30					30			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5683	5683	5683
5°	5711	5667	5696
10°	5703	5668	5683
15°	5692	5642	5660
20°	5652	5600	5615
25°	5578	5524	5527
30°	5441	5385	5361
35°	5218	5123	5007
40°	4884	4760	4331
45°	4411	4244	3385
50°	3912	3446	2863
55°	3415	2827	2526
60°	2961	2328	2229
65°	2597	1868	2058
70°	2316	1583	2072
75°	2260	1670	2315
80°	2505	2105	2655
85°	2610	2246	3105



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.0	4.3
10°-20°	458.4	12.5
20°-30°	685.7	18.6
30°-40°	774.1	21.0
40°-50°	656.7	17.8
50°-60°	444.3	12.1
60°-70°	265.2	7.2
70°-80°	166.1	4.5
80°-90°	69.9	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°	1304.2	35.4
0°-40°	2078.3	56.5
0°-60°	3179.3	86.4
0°-90°	3680.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3680.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1687	1687	1687	1687	1687	
5°	1688	1683	1675	1687	1684	160
15°	1632	1628	1617	1628	1622	460
25°	1500	1495	1486	1492	1487	690
35°	1268	1260	1246	1234	1217	790
45°	926	929	891	763	710	713
55°	581	554	481	431	430	524
65°	326	270	234	250	258	326
75°	174	155	128	169	178	187
85°	68	64	58	75	80	73
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1686.6	1686.6	1686.6	1686.6	1686.6
2.5°	1692.5	1687.4	1679.8	1690.0	1689.1
5°	1688.3	1683.2	1675.4	1687.4	1684.0
7.5°	1680.6	1676.3	1668.6	1679.8	1676.3
10°	1666.9	1663.4	1656.6	1666.1	1660.9
12.5°	1652.4	1649.8	1641.3	1649.8	1644.7
15°	1631.8	1628.4	1617.3	1628.4	1622.5
17.5°	1606.2	1601.9	1592.6	1601.9	1596.8
20°	1576.3	1571.1	1561.8	1571.1	1566.0
22.5°	1540.4	1536.1	1527.5	1536.1	1529.3
25°	1500.2	1495.1	1485.7	1492.5	1486.6
27.5°	1454.1	1447.2	1438.7	1443.8	1440.4
30°	1398.5	1389.9	1384.0	1384.0	1377.9
32.5°	1337.8	1331.8	1321.6	1315.5	1307.9
35°	1268.5	1260.0	1245.5	1234.4	1217.3
37.5°	1194.2	1184.0	1165.9	1137.8	1114.7
40°	1110.4	1097.6	1082.2	1026.6	984.7
42.5°	1020.7	1018.1	991.6	896.8	838.6
45°	925.7	929.2	890.7	763.4	710.3
47.5°	830.0	842.0	771.9	647.1	619.7
50°	746.3	750.6	657.4	561.6	546.2
52.5°	659.9	653.1	560.7	494.1	483.0
55°	581.3	553.9	481.3	430.9	430.0
57.5°	512.0	461.6	411.1	373.6	377.8
60°	439.4	382.9	345.4	324.9	330.8
62.5°	375.3	321.4	288.1	282.1	292.3
65°	325.7	270.1	234.3	249.6	258.1
67.5°	278.7	231.6	190.7	227.4	230.8
70°	235.1	200.9	160.7	209.4	210.3
72.5°	199.2	177.8	139.3	189.8	192.4
75°	173.6	154.7	128.3	169.2	177.8
77.5°	152.2	132.5	118.8	146.2	160.7
80°	129.1	106.8	108.5	122.2	136.8
82.5°	99.2	83.0	86.4	100.9	111.1
85°	67.5	64.1	58.1	75.2	80.3
87.5°	35.9	34.2	29.9	42.8	40.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)