

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: P291138

Luminaire Tested: **14GR-LD5-43-A-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291138
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-3500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3773.0 lumens
Efficiency: N/A
Efficacy: 103.0 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

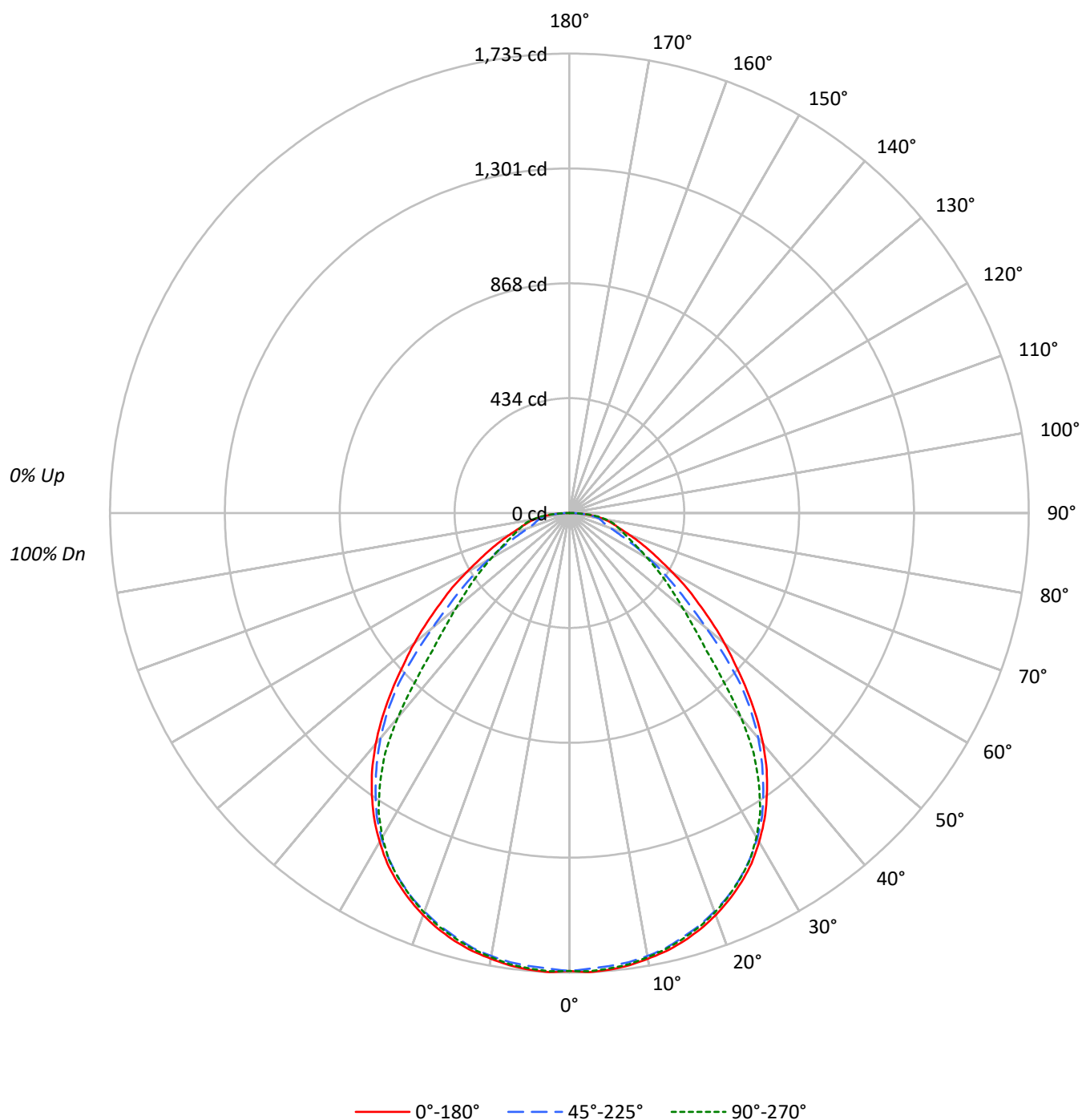
Input Watts (W): 36.642
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4653	4653	4653
5°	4675	4640	4663
10°	4669	4641	4653
15°	4661	4619	4634
20°	4627	4585	4597
25°	4566	4522	4525
30°	4455	4408	4389
35°	4272	4194	4099
40°	3999	3897	3546
45°	3612	3475	2771
50°	3203	2821	2344
55°	2796	2315	2068
60°	2424	1905	1825
65°	2126	1529	1685
70°	1896	1296	1696
75°	1850	1366	1895
80°	2050	1725	2173
85°	2137	1840	2544



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.0	4.3
10°-20°	469.9	12.5
20°-30°	703.0	18.6
30°-40°	793.6	21.0
40°-50°	673.2	17.8
50°-60°	455.5	12.1
60°-70°	271.9	7.2
70°-80°	170.3	4.5
80°-90°	71.6	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°	1337.0	35.4
0°-40°	2130.5	56.5
0°-60°	3259.2	86.4
0°-90°	3773.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3773.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1729	1729	1729	1729	1729	
5°	1731	1726	1718	1730	1726	165
15°	1673	1669	1658	1669	1663	472
25°	1538	1533	1523	1530	1524	707
35°	1300	1292	1277	1265	1248	810
45°	949	952	913	782	728	731
55°	596	568	493	442	441	537
65°	334	277	240	256	265	334
75°	178	159	131	174	182	191
85°	69	66	60	77	82	75
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1729.0	1729.0	1729.0	1729.0	1729.0
2.5°	1735.1	1729.8	1721.9	1732.5	1731.6
5°	1730.7	1725.5	1717.6	1729.8	1726.3
7.5°	1722.8	1718.4	1710.6	1721.9	1718.4
10°	1708.8	1705.3	1698.3	1707.9	1702.7
12.5°	1693.9	1691.3	1682.5	1691.3	1686.0
15°	1672.9	1669.4	1658.0	1669.4	1663.2
17.5°	1646.6	1642.2	1632.6	1642.2	1636.9
20°	1615.9	1610.7	1601.0	1610.7	1605.4
22.5°	1579.1	1574.7	1566.0	1574.7	1567.7
25°	1537.9	1532.7	1523.0	1530.0	1523.9
27.5°	1490.6	1483.6	1474.8	1480.1	1476.6
30°	1433.6	1424.9	1418.7	1418.7	1412.6
32.5°	1371.4	1365.3	1354.8	1348.6	1340.8
35°	1300.4	1291.7	1276.8	1265.4	1247.9
37.5°	1224.2	1213.7	1195.3	1166.4	1142.7
40°	1138.3	1125.2	1109.4	1052.4	1009.5
42.5°	1046.3	1043.7	1016.5	919.2	859.7
45°	949.0	952.5	913.1	782.5	728.2
47.5°	850.9	863.2	791.3	663.4	635.3
50°	765.0	769.4	673.9	575.7	560.0
52.5°	676.5	669.5	574.9	506.5	495.1
55°	595.9	567.8	493.4	441.7	440.8
57.5°	524.9	473.2	421.5	382.9	387.3
60°	450.4	392.6	354.0	333.0	339.1
62.5°	384.7	329.5	295.3	289.2	299.7
65°	333.9	276.9	240.1	255.9	264.6
67.5°	285.7	237.5	195.4	233.1	236.6
70°	241.0	205.9	164.7	214.7	215.6
72.5°	204.2	182.3	142.8	194.5	197.2
75°	177.9	158.6	131.4	173.5	182.3
77.5°	156.0	135.8	121.8	149.8	164.7
80°	132.3	109.5	111.3	125.3	140.2
82.5°	101.7	85.0	88.5	103.4	113.9
85°	69.2	65.7	59.6	77.1	82.4
87.5°	36.8	35.1	30.7	43.8	41.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)