

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: P290970

Luminaire Tested: **14GR-LD5-36-A-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290970
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-LD5-36-A-UNV-L83050-W2A1-U-3500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3694.0 lumens
Efficiency: N/A
Efficacy: 126.1 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

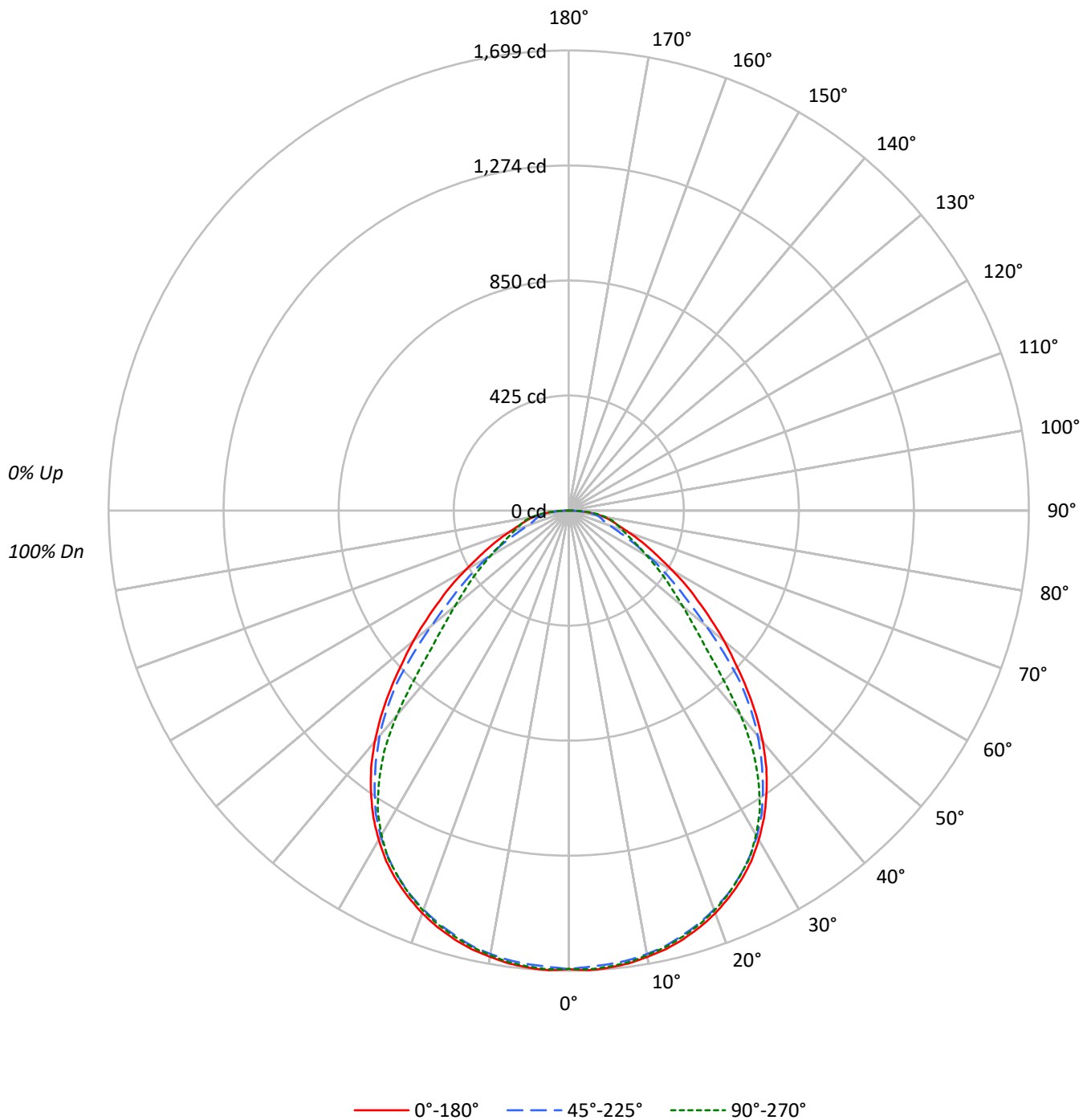
Input Watts (W): 29.295
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4555	4555	4555
5°	4577	4542	4566
10°	4571	4543	4555
15°	4563	4522	4537
20°	4531	4489	4501
25°	4471	4427	4430
30°	4361	4316	4297
35°	4183	4106	4013
40°	3915	3816	3472
45°	3536	3402	2713
50°	3136	2762	2295
55°	2737	2266	2025
60°	2373	1865	1787
65°	2082	1497	1650
70°	1856	1269	1661
75°	1811	1338	1856
80°	2008	1689	2128
85°	2093	1800	2489



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.6	4.3
10°-20°	460.1	12.5
20°-30°	688.3	18.6
30°-40°	776.9	21.0
40°-50°	659.1	17.8
50°-60°	446.0	12.1
60°-70°	266.2	7.2
70°-80°	166.7	4.5
80°-90°	70.1	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°	1309.0	35.4
0°-40°	2085.9	56.5
0°-60°	3191.0	86.4
0°-90°	3694.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3694.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1693	1693	1693	1693	1693	
5°	1694	1689	1682	1694	1690	161
15°	1638	1634	1623	1634	1628	462
25°	1506	1501	1491	1498	1492	692
35°	1273	1265	1250	1239	1222	793
45°	929	933	894	766	713	716
55°	583	556	483	432	432	526
65°	327	271	235	250	259	327
75°	174	155	129	170	178	187
85°	68	64	58	76	81	73
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1692.8	1692.8	1692.8	1692.8	1692.8
2.5°	1698.8	1693.6	1685.9	1696.2	1695.3
5°	1694.5	1689.3	1681.6	1693.6	1690.2
7.5°	1686.7	1682.5	1674.7	1685.9	1682.5
10°	1673.0	1669.6	1662.7	1672.2	1667.0
12.5°	1658.4	1655.9	1647.3	1655.9	1650.7
15°	1637.8	1634.4	1623.3	1634.4	1628.4
17.5°	1612.1	1607.8	1598.4	1607.8	1602.7
20°	1582.1	1576.9	1567.5	1576.9	1571.8
22.5°	1546.0	1541.8	1533.2	1541.8	1534.9
25°	1505.7	1500.6	1491.1	1498.0	1492.0
27.5°	1459.4	1452.5	1443.9	1449.1	1445.7
30°	1403.6	1395.0	1389.0	1389.0	1383.0
32.5°	1342.7	1336.7	1326.4	1320.4	1312.7
35°	1273.2	1264.6	1250.0	1238.9	1221.7
37.5°	1198.6	1188.3	1170.3	1141.9	1118.8
40°	1114.5	1101.6	1086.2	1030.4	988.4
42.5°	1024.4	1021.8	995.2	900.0	841.7
45°	929.2	932.6	894.0	766.2	713.0
47.5°	833.1	845.1	774.7	649.5	622.0
50°	749.0	753.3	659.8	563.7	548.2
52.5°	662.3	655.5	562.8	495.9	484.7
55°	583.4	556.0	483.0	432.4	431.6
57.5°	513.9	463.3	412.7	374.9	379.2
60°	441.0	384.4	346.6	326.0	332.0
62.5°	376.6	322.6	289.1	283.1	293.4
65°	326.9	271.1	235.1	250.5	259.1
67.5°	279.7	232.5	191.3	228.2	231.6
70°	235.9	201.6	161.3	210.2	211.1
72.5°	199.9	178.5	139.8	190.5	193.0
75°	174.2	155.3	128.7	169.9	178.5
77.5°	152.7	133.0	119.3	146.7	161.3
80°	129.6	107.2	109.0	122.7	137.3
82.5°	99.5	83.2	86.7	101.2	111.5
85°	67.8	64.3	58.3	75.5	80.6
87.5°	36.0	34.3	30.0	42.9	40.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)