

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: P290825

Luminaire Tested: **14GR-LD5-36-F125-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290825
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33313)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-36-F125-UNV-L82765-W2A1-U-3000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3451.0 lumens
Efficiency: N/A
Efficacy: 118.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.16 / 1.24
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

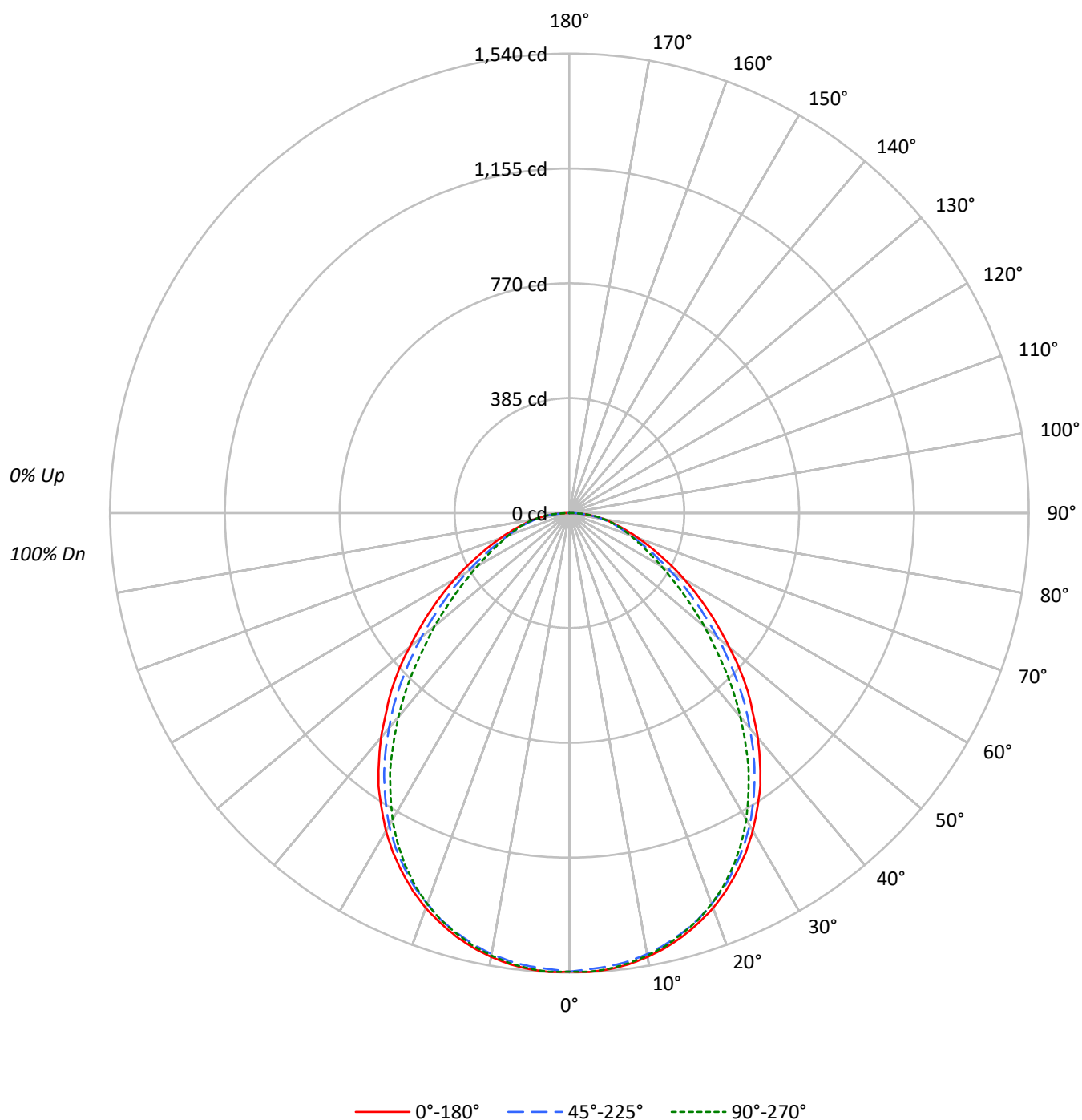
Input Watts (W): 29.109
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0			
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	88	85			
2	101	93	87	81	98	91	85	80	88	83	78	84	80	77	81	78	75	73			
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63			
4	85	74	66	59	83	73	65	59	70	64	58	68	62	58	66	61	57	55			
5	79	67	58	52	77	66	58	52	64	57	51	62	55	51	60	54	50	48			
6	73	60	52	46	71	60	52	46	58	51	45	56	50	45	55	49	45	43			
7	68	55	47	41	66	54	47	41	53	46	41	51	45	40	50	44	40	38			
8	64	51	43	37	62	50	42	37	49	42	37	47	41	36	46	41	36	34			
9	60	47	39	34	58	46	39	33	45	38	33	44	38	33	43	37	33	31			
10	56	43	36	31	55	43	35	31	42	35	30	41	35	30	40	34	30	28			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4137	4137	4137
5°	4146	4120	4142
10°	4128	4101	4115
15°	4091	4060	4066
20°	4034	3990	3992
25°	3942	3894	3867
30°	3821	3755	3685
35°	3664	3558	3440
40°	3451	3303	3130
45°	3218	3024	2799
50°	2926	2713	2472
55°	2664	2405	2155
60°	2389	2119	1914
65°	2130	1888	1759
70°	1937	1721	1702
75°	1811	1676	1760
80°	1821	1733	1833
85°	1902	1775	2025



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.4	4.2
10°-20°	412.1	11.9
20°-30°	604.3	17.5
30°-40°	674.4	19.5
40°-50°	610.6	17.7
50°-60°	461.0	13.4
60°-70°	301.4	8.7
70°-80°	177.0	5.1
80°-90°	64.8	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°	1161.8	33.7
0°-40°	1836.2	53.2
0°-60°	2907.8	84.3
0°-90°	3451.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3451.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1537	1537	1537	1537	1537	
5°	1535	1532	1525	1534	1533	146
15°	1468	1466	1457	1465	1460	414
25°	1328	1323	1311	1309	1302	611
35°	1115	1106	1083	1059	1047	695
45°	846	833	795	752	736	650
55°	568	555	513	472	459	508
65°	334	324	296	280	276	336
75°	174	169	161	164	169	187
85°	62	59	58	65	66	65
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1537.4	1537.4	1537.4	1537.4	1537.4
2.5°	1539.8	1537.4	1530.1	1539.8	1539.0
5°	1535.0	1531.7	1525.2	1534.2	1533.3
7.5°	1525.2	1522.0	1515.5	1523.6	1522.0
10°	1510.7	1507.4	1500.9	1509.9	1505.8
12.5°	1492.0	1488.8	1481.5	1489.6	1486.4
15°	1468.5	1466.1	1457.2	1465.3	1459.6
17.5°	1440.2	1436.1	1429.7	1434.5	1430.5
20°	1408.6	1403.7	1393.2	1398.1	1394.0
22.5°	1370.5	1364.1	1356.8	1356.8	1351.1
25°	1327.6	1322.7	1311.4	1309.0	1302.5
27.5°	1281.4	1277.4	1262.8	1258.8	1247.4
30°	1229.6	1223.9	1208.5	1195.6	1185.9
32.5°	1172.1	1168.0	1147.0	1130.0	1116.2
35°	1115.4	1105.7	1083.0	1058.7	1047.3
37.5°	1049.0	1041.7	1013.3	983.4	968.0
40°	982.5	973.6	940.4	907.2	891.0
42.5°	910.5	902.4	870.8	831.1	814.1
45°	845.7	832.7	794.6	751.7	735.5
47.5°	774.4	760.6	720.1	674.7	656.1
50°	699.0	690.1	648.0	604.3	590.5
52.5°	631.8	618.0	578.3	535.4	520.8
55°	567.8	554.9	512.7	472.2	459.3
57.5°	503.8	489.2	452.8	416.3	403.4
60°	443.9	429.3	393.7	363.7	355.6
62.5°	389.6	373.4	341.8	318.3	312.7
65°	334.5	324.0	296.5	279.5	276.2
67.5°	288.4	275.4	253.5	245.4	243.8
70°	246.2	237.3	218.7	216.3	216.3
72.5°	208.2	200.9	187.1	188.7	191.2
75°	174.2	169.3	161.2	164.4	169.3
77.5°	145.0	140.1	135.3	140.1	143.4
80°	117.5	112.6	111.8	115.8	118.3
82.5°	88.3	84.2	85.1	91.5	94.0
85°	61.6	59.1	57.5	64.8	65.6
87.5°	31.6	30.0	29.2	34.8	33.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)