

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: P290829

Luminaire Tested: **14GR-LD5-36-F125-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290829
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-5000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3763.0 lumens
Efficiency: N/A
Efficacy: 125.7 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

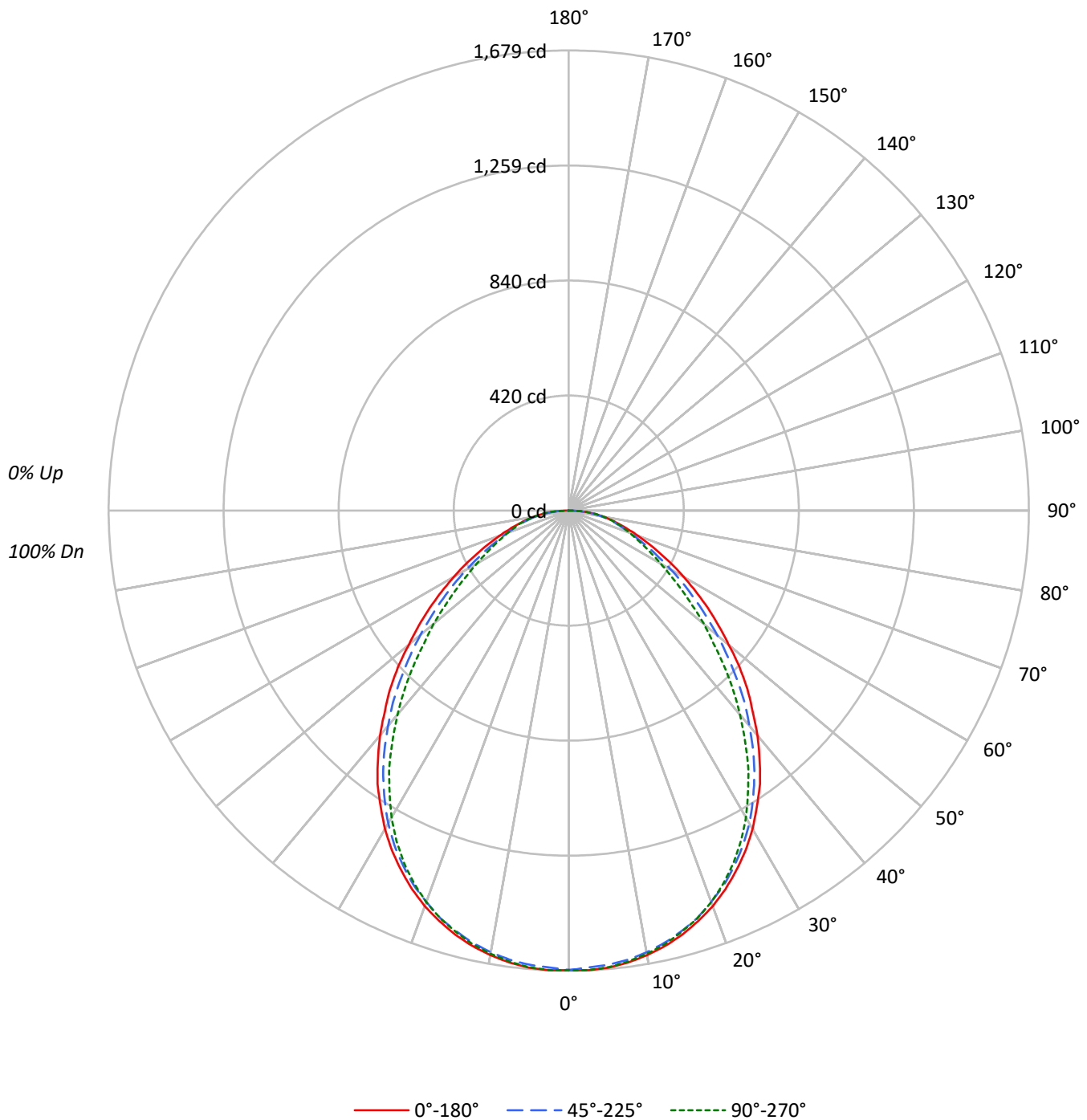
Input Watts (W): 29.946
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4511	4511	4511
5°	4521	4492	4517
10°	4501	4472	4486
15°	4461	4427	4434
20°	4399	4351	4353
25°	4298	4246	4217
30°	4166	4095	4018
35°	3995	3879	3752
40°	3764	3602	3413
45°	3509	3298	3052
50°	3191	2958	2696
55°	2905	2623	2350
60°	2605	2310	2087
65°	2323	2059	1918
70°	2113	1876	1855
75°	1974	1828	1919
80°	1985	1889	1999
85°	2072	1936	2208



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.5	4.2
10°-20°	449.4	11.9
20°-30°	658.9	17.5
30°-40°	735.4	19.5
40°-50°	665.8	17.7
50°-60°	502.7	13.4
60°-70°	328.6	8.7
70°-80°	193.0	5.1
80°-90°	70.7	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°	1266.8	33.7
0°-40°	2002.2	53.2
0°-60°	3170.7	84.3
0°-90°	3763.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3763.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1676	1676	1676	1676	1676	
5°	1674	1670	1663	1673	1672	159
15°	1601	1599	1589	1598	1592	451
25°	1448	1442	1430	1427	1420	666
35°	1216	1206	1181	1154	1142	757
45°	922	908	866	820	802	709
55°	619	605	559	515	501	554
65°	365	353	323	305	301	366
75°	190	185	176	179	185	204
85°	67	64	63	71	72	71
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1676.4	1676.4	1676.4	1676.4	1676.4
2.5°	1679.0	1676.4	1668.4	1679.0	1678.2
5°	1673.7	1670.2	1663.1	1672.9	1672.0
7.5°	1663.1	1659.6	1652.5	1661.4	1659.6
10°	1647.2	1643.7	1636.6	1646.4	1641.9
12.5°	1626.9	1623.4	1615.4	1624.3	1620.7
15°	1601.3	1598.7	1589.0	1597.8	1591.6
17.5°	1570.4	1566.0	1558.9	1564.2	1559.8
20°	1536.0	1530.7	1519.2	1524.5	1520.1
22.5°	1494.4	1487.4	1479.4	1479.4	1473.2
25°	1447.6	1442.3	1430.0	1427.3	1420.3
27.5°	1397.3	1392.9	1377.0	1372.6	1360.2
30°	1340.8	1334.6	1317.8	1303.7	1293.1
32.5°	1278.1	1273.6	1250.7	1232.1	1217.1
35°	1216.2	1205.6	1180.9	1154.4	1142.0
37.5°	1143.8	1135.8	1104.9	1072.3	1055.5
40°	1071.4	1061.7	1025.4	989.2	971.6
42.5°	992.8	983.9	949.5	906.2	887.7
45°	922.1	908.0	866.5	819.6	802.0
47.5°	844.4	829.4	785.2	735.7	715.4
50°	762.2	752.5	706.6	658.9	643.9
52.5°	688.9	673.9	630.6	583.8	567.9
55°	619.2	605.0	559.1	514.9	500.8
57.5°	549.4	533.5	493.7	454.0	439.9
60°	484.0	468.1	429.3	396.6	387.7
62.5°	424.8	407.2	372.7	347.1	340.9
65°	364.8	353.3	323.3	304.7	301.2
67.5°	314.4	300.3	276.5	267.6	265.9
70°	268.5	258.8	238.5	235.8	235.8
72.5°	227.0	219.0	204.0	205.8	208.4
75°	189.9	184.6	175.8	179.3	184.6
77.5°	158.1	152.8	147.5	152.8	156.3
80°	128.1	122.8	121.9	126.3	129.0
82.5°	96.3	91.9	92.7	99.8	102.5
85°	67.1	64.5	62.7	70.7	71.5
87.5°	34.4	32.7	31.8	38.0	36.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)