

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: P290830

Luminaire Tested: **14GR-LD5-36-F125-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290830
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-5500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3801.0 lumens
Efficiency: N/A
Efficacy: 126.1 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

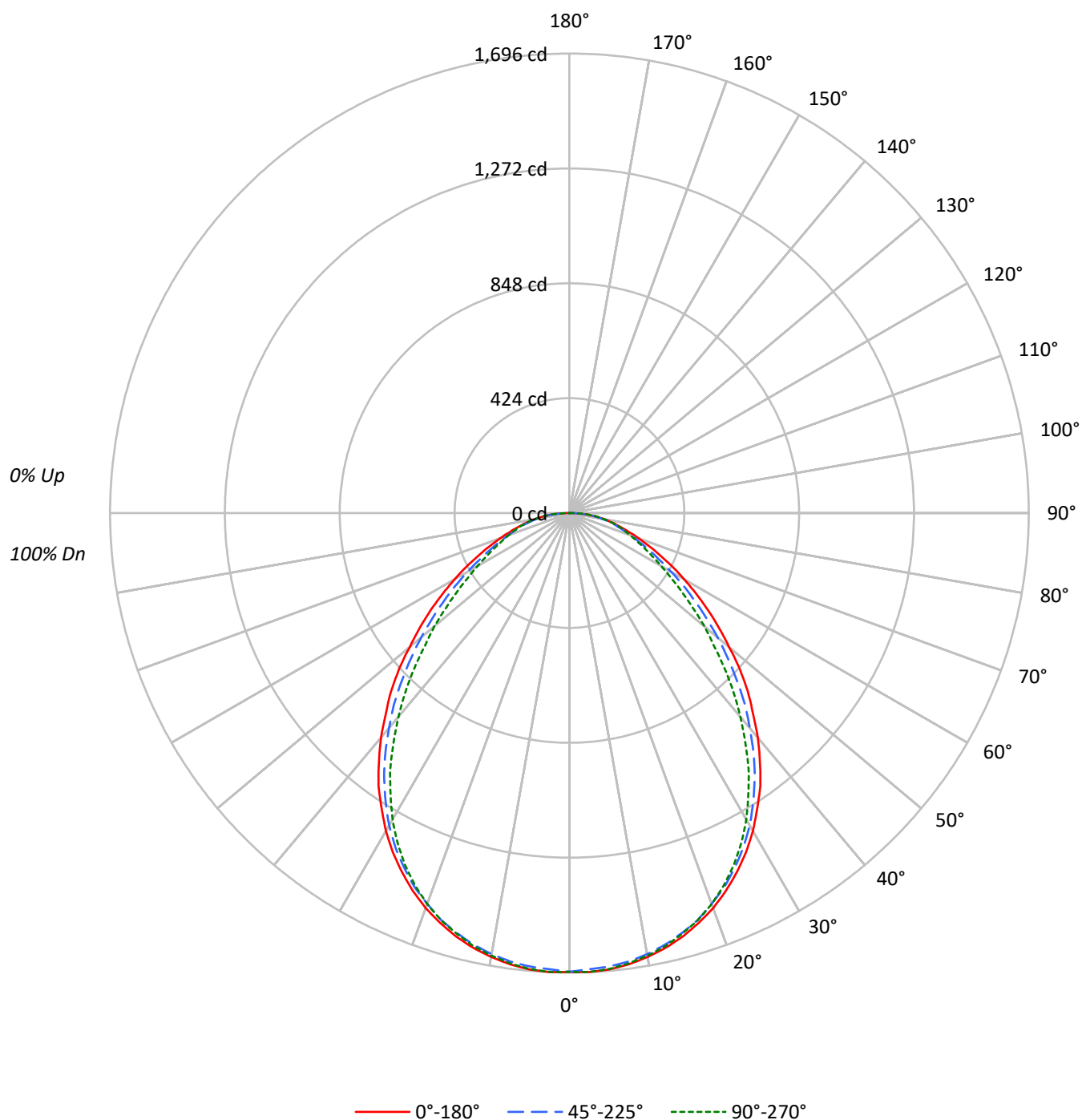
Input Watts (W): 30.132
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4557	4557	4557
5°	4567	4538	4562
10°	4547	4517	4532
15°	4506	4471	4479
20°	4443	4394	4397
25°	4342	4289	4260
30°	4208	4136	4058
35°	4036	3918	3790
40°	3802	3639	3447
45°	3545	3331	3083
50°	3223	2988	2723
55°	2934	2649	2373
60°	2631	2334	2108
65°	2346	2079	1937
70°	2134	1895	1874
75°	1994	1845	1939
80°	2005	1908	2019
85°	2093	1954	2232



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.1	4.2
10°-20°	453.9	11.9
20°-30°	665.5	17.5
30°-40°	742.8	19.5
40°-50°	672.5	17.7
50°-60°	507.8	13.4
60°-70°	331.9	8.7
70°-80°	195.0	5.1
80°-90°	71.4	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°	1279.6	33.7
0°-40°	2022.4	53.2
0°-60°	3202.7	84.3
0°-90°	3801.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3801.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1693	1693	1693	1693	1693	
5°	1691	1687	1680	1690	1689	161
15°	1618	1615	1605	1614	1608	456
25°	1462	1457	1444	1442	1435	673
35°	1228	1218	1193	1166	1154	765
45°	931	917	875	828	810	716
55°	625	611	565	520	506	560
65°	368	357	326	308	304	370
75°	192	186	178	181	186	206
85°	68	65	63	71	72	72
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1693.3	1693.3	1693.3	1693.3	1693.3
2.5°	1696.0	1693.3	1685.3	1696.0	1695.1
5°	1690.6	1687.1	1679.9	1689.8	1688.9
7.5°	1679.9	1676.4	1669.2	1678.2	1676.4
10°	1663.9	1660.3	1653.2	1663.0	1658.5
12.5°	1643.4	1639.8	1631.8	1640.7	1637.1
15°	1617.5	1614.8	1605.0	1613.9	1607.7
17.5°	1586.3	1581.8	1574.7	1580.0	1575.6
20°	1551.5	1546.1	1534.5	1539.9	1535.4
22.5°	1509.5	1502.4	1494.4	1494.4	1488.1
25°	1462.3	1456.9	1444.4	1441.7	1434.6
27.5°	1411.4	1406.9	1390.9	1386.4	1373.9
30°	1354.3	1348.1	1331.1	1316.8	1306.1
32.5°	1291.0	1286.5	1263.3	1244.6	1229.4
35°	1228.5	1217.8	1192.8	1166.1	1153.6
37.5°	1155.3	1147.3	1116.1	1083.1	1066.1
40°	1082.2	1072.4	1035.8	999.2	981.4
42.5°	1002.8	993.9	959.1	915.4	896.6
45°	931.4	917.1	875.2	827.9	810.1
47.5°	852.9	837.7	793.1	743.2	722.7
50°	769.9	760.1	713.7	665.6	650.4
52.5°	695.9	680.7	637.0	589.7	573.7
55°	625.4	611.1	564.7	520.1	505.9
57.5°	554.9	538.9	498.7	458.6	444.3
60°	488.9	472.8	433.6	400.6	391.7
62.5°	429.1	411.3	376.5	350.6	344.4
65°	368.5	356.9	326.5	307.8	304.2
67.5°	317.6	303.3	279.2	270.3	268.5
70°	271.2	261.4	240.9	238.2	238.2
72.5°	229.3	221.3	206.1	207.9	210.5
75°	191.8	186.5	177.5	181.1	186.5
77.5°	159.7	154.3	149.0	154.3	157.9
80°	129.4	124.0	123.1	127.6	130.3
82.5°	97.2	92.8	93.7	100.8	103.5
85°	67.8	65.1	63.3	71.4	72.3
87.5°	34.8	33.0	32.1	38.4	36.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)