

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: P290942

Luminaire Tested: **14GR-LD5-43-F125-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290942
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-LD5-43-F125-UNV-L92765-W2A1-U-3500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3733.0 lumens
Efficiency: N/A
Efficacy: 101.9 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

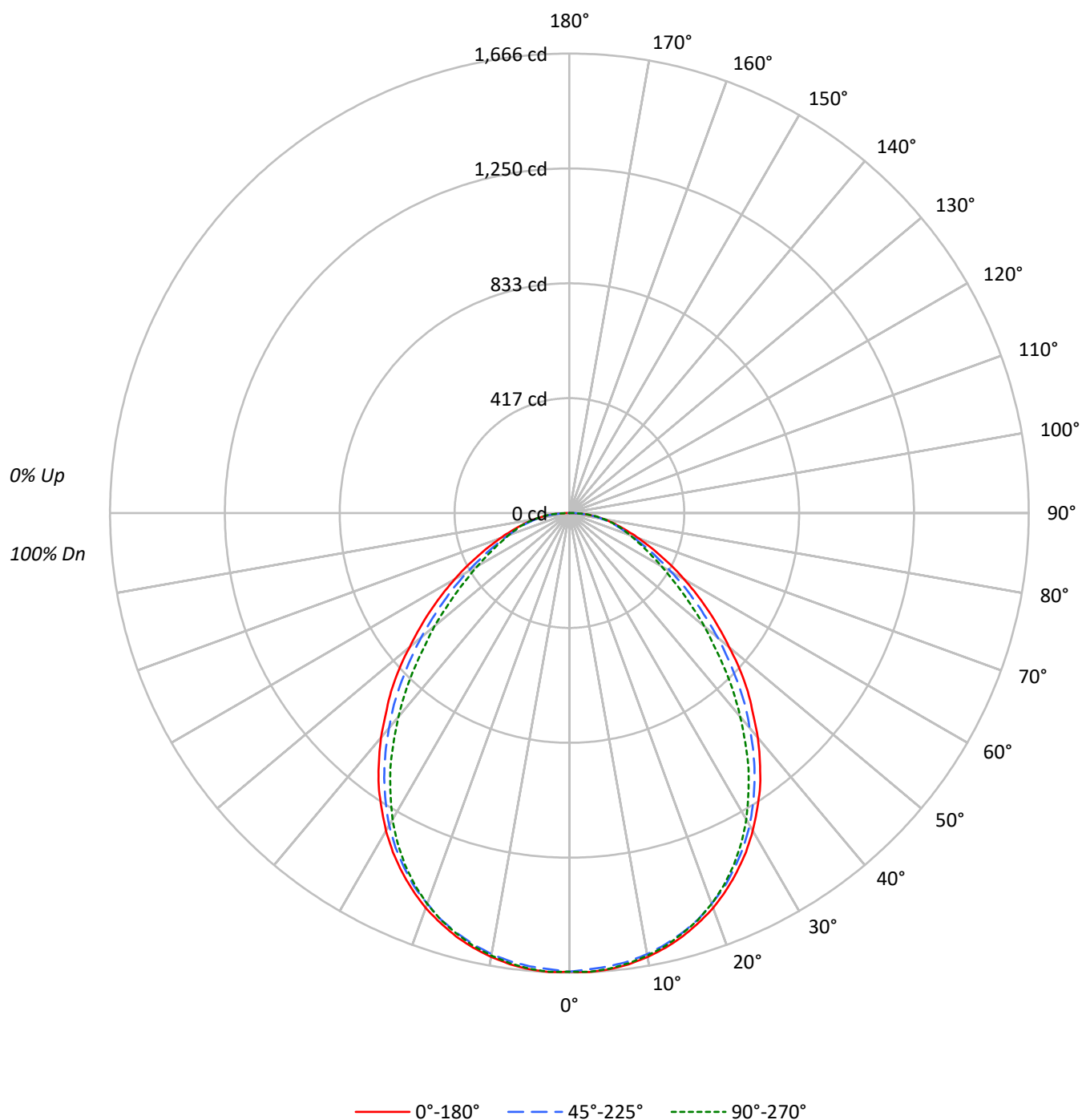
Input Watts (W): 36.642
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	4475	4475	4475
5°	4485	4457	4480
10°	4465	4436	4451
15°	4426	4391	4399
20°	4363	4316	4318
25°	4264	4212	4183
30°	4133	4062	3986
35°	3963	3848	3722
40°	3733	3574	3386
45°	3481	3271	3028
50°	3166	2935	2674
55°	2882	2602	2331
60°	2584	2292	2070
65°	2304	2042	1903
70°	2096	1862	1840
75°	1959	1813	1904
80°	1968	1874	1982
85°	2056	1920	2192



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.3	4.2
10°-20°	445.8	11.9
20°-30°	653.6	17.5
30°-40°	729.5	19.5
40°-50°	660.5	17.7
50°-60°	498.7	13.4
60°-70°	326.0	8.7
70°-80°	191.5	5.1
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°	1256.7	33.7
0°-40°	1986.2	53.2
0°-60°	3145.4	84.3
0°-90°	3733.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3733.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1663	1663	1663	1663	1663	
5°	1660	1657	1650	1660	1659	158
15°	1589	1586	1576	1585	1579	448
25°	1436	1431	1419	1416	1409	661
35°	1206	1196	1172	1145	1133	751
45°	915	901	860	813	796	703
55°	614	600	555	511	497	550
65°	362	350	321	302	299	363
75°	188	183	174	178	183	202
85°	67	64	62	70	71	71
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1663.0	1663.0	1663.0	1663.0	1663.0
2.5°	1665.7	1663.0	1655.1	1665.7	1664.8
5°	1660.4	1656.9	1649.9	1659.5	1658.6
7.5°	1649.9	1646.4	1639.4	1648.1	1646.4
10°	1634.1	1630.6	1623.6	1633.2	1628.9
12.5°	1614.0	1610.5	1602.6	1611.3	1607.8
15°	1588.6	1585.9	1576.3	1585.0	1578.9
17.5°	1557.9	1553.5	1546.5	1551.8	1547.4
20°	1523.7	1518.5	1507.1	1512.3	1507.9
22.5°	1482.5	1475.5	1467.6	1467.6	1461.5
25°	1436.1	1430.8	1418.6	1415.9	1408.9
27.5°	1386.1	1381.8	1366.0	1361.6	1349.3
30°	1330.1	1323.9	1307.3	1293.3	1282.8
32.5°	1267.9	1263.5	1240.7	1222.3	1207.4
35°	1206.5	1196.0	1171.5	1145.2	1132.9
37.5°	1134.7	1126.8	1096.1	1063.7	1047.1
40°	1062.8	1053.2	1017.3	981.3	963.8
42.5°	984.8	976.1	941.9	899.0	880.6
45°	914.8	900.7	859.6	813.1	795.6
47.5°	837.6	822.8	778.9	729.9	709.7
50°	756.2	746.5	701.0	653.6	638.7
52.5°	683.4	668.5	625.6	579.2	563.4
55°	614.2	600.2	554.6	510.8	496.8
57.5°	545.0	529.2	489.8	450.4	436.3
60°	480.2	464.4	425.8	393.4	384.7
62.5°	421.5	403.9	369.8	344.3	338.2
65°	361.9	350.5	320.7	302.3	298.8
67.5°	311.9	297.9	274.3	265.5	263.7
70°	266.4	256.7	236.6	233.9	233.9
72.5°	225.2	217.3	202.4	204.2	206.8
75°	188.4	183.1	174.4	177.9	183.1
77.5°	156.8	151.6	146.3	151.6	155.1
80°	127.0	121.8	120.9	125.3	127.9
82.5°	95.5	91.1	92.0	99.0	101.6
85°	66.6	64.0	62.2	70.1	71.0
87.5°	34.2	32.4	31.5	37.7	35.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)