

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: P290651

Luminaire Tested: **14GR-LD5-43-F1-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290651
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-084-7)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-43-F1-UNV-L82765-W2A1-U-5000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4492.0 lumens
Efficiency: N/A
Efficacy: 120.2 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.15 / 1.23
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

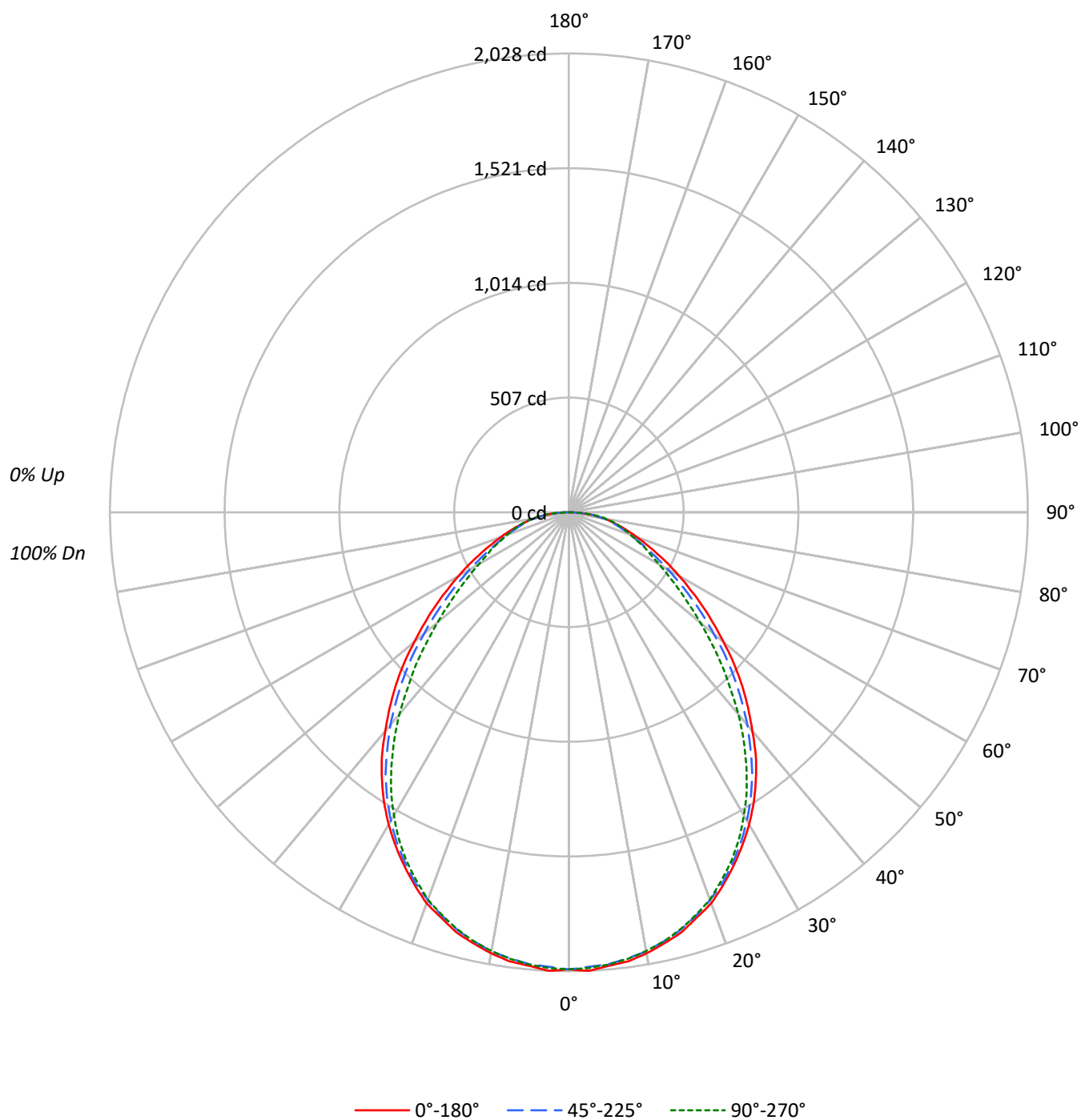
Input Watts (W): 37.386
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	87
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	57		66	61	57
5	79	67	58	52	77	66	58	52		64	57	51		62	55	51		60	54	50
6	73	61	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		52	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°	5436	5436	5436
5°	5435	5415	5418
10°	5408	5382	5379
15°	5353	5321	5312
20°	5266	5222	5216
25°	5115	5081	5044
30°	4950	4889	4805
35°	4732	4641	4488
40°	4431	4308	4095
45°	4114	3930	3644
50°	3733	3500	3172
55°	3377	3092	2773
60°	3031	2710	2471
65°	2721	2419	2367
70°	2511	2252	2276
75°	2398	2259	2387
80°	2425	2410	2600
85°	2510	2479	2766



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	190.7	4.2
10°-20°	539.1	12.0
20°-30°	787.4	17.5
30°-40°	877.4	19.5
40°-50°	790.5	17.6
50°-60°	590.9	13.2
60°-70°	389.8	8.7
70°-80°	237.9	5.3
80°-90°	88.3	2.0
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°	1517.2	33.8
0°-40°	2394.6	53.3
0°-60°	3776.0	84.1
0°-90°	4492.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4492.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2020	2020	2020	2020	2020	
5°	2012	2010	2005	2015	2006	191
15°	1921	1914	1910	1921	1907	541
25°	1723	1716	1711	1714	1699	793
35°	1440	1428	1413	1388	1366	898
45°	1081	1070	1033	985	958	832
55°	720	708	659	604	591	645
65°	427	414	380	364	372	428
75°	231	226	217	224	230	246
85°	81	78	80	88	90	87
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2020.2	2020.2	2020.2	2020.2	2020.2
2.5°	2028.4	2019.1	2010.9	2023.3	2016.0
5°	2011.9	2009.9	2004.7	2015.0	2005.8
7.5°	2001.6	1994.4	1988.2	2000.6	1990.3
10°	1979.0	1974.9	1969.7	1980.0	1968.7
12.5°	1951.2	1947.1	1941.9	1954.3	1941.9
15°	1921.3	1914.1	1910.0	1921.3	1906.9
17.5°	1878.1	1875.0	1868.8	1880.1	1865.7
20°	1838.9	1827.6	1823.5	1831.7	1821.4
22.5°	1782.3	1774.1	1773.1	1778.2	1760.7
25°	1722.6	1716.4	1711.3	1714.4	1698.9
27.5°	1659.8	1651.6	1645.4	1644.3	1627.9
30°	1592.9	1582.6	1573.3	1565.1	1546.5
32.5°	1519.8	1507.4	1495.0	1481.7	1462.1
35°	1440.5	1428.1	1412.7	1388.0	1366.3
37.5°	1357.1	1342.7	1317.9	1289.1	1267.5
40°	1261.3	1254.1	1226.3	1189.2	1165.6
42.5°	1171.7	1163.5	1128.5	1087.3	1055.4
45°	1081.1	1069.8	1032.7	985.4	957.6
47.5°	988.5	977.1	935.9	877.3	852.5
50°	891.7	885.5	836.1	782.5	757.8
52.5°	803.1	795.9	745.5	691.9	669.3
55°	719.7	708.4	659.0	604.4	591.0
57.5°	636.3	624.0	577.6	531.3	522.0
60°	563.2	547.8	503.5	467.5	459.2
62.5°	494.2	476.7	439.7	411.9	407.7
65°	427.3	413.9	379.9	364.5	371.7
67.5°	369.6	356.3	331.5	325.4	323.3
70°	319.2	306.8	286.2	288.3	289.3
72.5°	272.9	265.6	250.2	255.4	259.5
75°	230.6	226.5	217.3	224.5	229.6
77.5°	192.5	189.5	185.3	191.5	199.8
80°	156.5	154.4	155.5	159.6	167.8
82.5°	120.5	116.4	119.4	127.7	132.8
85°	81.3	78.3	80.3	88.5	89.6
87.5°	38.1	38.1	37.1	43.2	43.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)