

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: P290749

Luminaire Tested: **14GR-LD5-43-F1-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290749
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-L92765-W2A1-U-5000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4033.0 lumens
Efficiency: N/A
Efficacy: 107.9 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

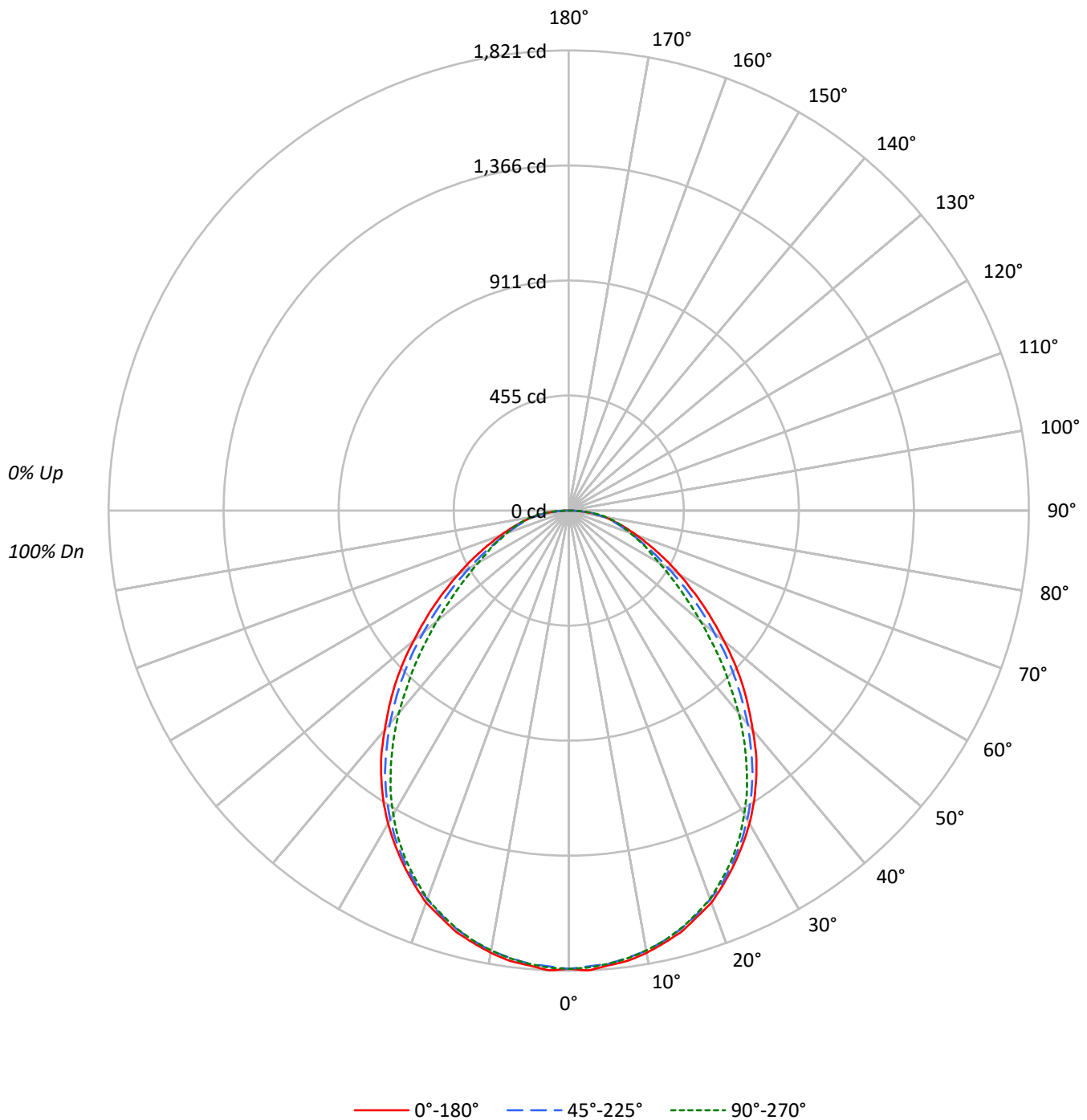
Input Watts (W): 37.386
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4881	4881	4881
5°	4879	4862	4864
10°	4855	4832	4830
15°	4806	4777	4770
20°	4728	4688	4683
25°	4592	4562	4529
30°	4444	4389	4314
35°	4249	4166	4030
40°	3978	3868	3676
45°	3694	3529	3272
50°	3352	3142	2848
55°	3032	2776	2489
60°	2722	2433	2219
65°	2443	2172	2125
70°	2255	2022	2044
75°	2153	2028	2143
80°	2177	2163	2335
85°	2254	2226	2482



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.2	4.2
10°-20°	484.1	12.0
20°-30°	706.9	17.5
30°-40°	787.7	19.5
40°-50°	709.7	17.6
50°-60°	530.5	13.2
60°-70°	350.0	8.7
70°-80°	213.6	5.3
80°-90°	79.3	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°	1362.2	33.8
0°-40°	2149.9	53.3
0°-60°	3390.1	84.1
0°-90°	4033.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4033.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1814	1814	1814	1814	1814	
5°	1806	1804	1800	1809	1801	172
15°	1725	1718	1715	1725	1712	485
25°	1547	1541	1536	1539	1525	712
35°	1293	1282	1268	1246	1227	806
45°	971	960	927	885	860	747
55°	646	636	592	543	531	579
65°	384	372	341	327	334	385
75°	207	203	195	202	206	221
85°	73	70	72	80	80	78
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1813.7	1813.7	1813.7	1813.7	1813.7
2.5°	1821.1	1812.8	1805.4	1816.5	1810.0
5°	1806.3	1804.5	1799.9	1809.1	1800.8
7.5°	1797.1	1790.6	1785.1	1796.2	1786.9
10°	1776.8	1773.1	1768.4	1777.7	1767.5
12.5°	1751.8	1748.1	1743.5	1754.6	1743.5
15°	1725.0	1718.5	1714.8	1725.0	1712.1
17.5°	1686.2	1683.4	1677.9	1688.0	1675.1
20°	1651.0	1640.9	1637.2	1644.6	1635.3
22.5°	1600.2	1592.8	1591.9	1596.5	1580.8
25°	1546.6	1541.0	1536.4	1539.2	1525.3
27.5°	1490.2	1482.8	1477.2	1476.3	1461.5
30°	1430.1	1420.9	1412.5	1405.1	1388.5
32.5°	1364.5	1353.4	1342.3	1330.3	1312.7
35°	1293.3	1282.2	1268.3	1246.1	1226.7
37.5°	1218.4	1205.5	1183.3	1157.4	1138.0
40°	1132.4	1126.0	1101.0	1067.7	1046.5
42.5°	1052.0	1044.6	1013.2	976.2	947.5
45°	970.7	960.5	927.2	884.7	859.7
47.5°	887.5	877.3	840.3	787.6	765.4
50°	800.6	795.0	750.6	702.6	680.4
52.5°	721.1	714.6	669.3	621.2	600.9
55°	646.2	636.0	591.6	542.6	530.6
57.5°	571.3	560.2	518.6	477.0	468.7
60°	505.7	491.8	452.0	419.7	412.3
62.5°	443.7	428.0	394.7	369.8	366.1
65°	383.6	371.6	341.1	327.3	333.7
67.5°	331.9	319.9	297.7	292.1	290.3
70°	286.6	275.5	257.0	258.8	259.8
72.5°	245.0	238.5	224.6	229.3	233.0
75°	207.1	203.4	195.1	201.5	206.1
77.5°	172.9	170.1	166.4	171.9	179.3
80°	140.5	138.7	139.6	143.3	150.7
82.5°	108.2	104.5	107.2	114.6	119.3
85°	73.0	70.3	72.1	79.5	80.4
87.5°	34.2	34.2	33.3	38.8	38.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)