

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: P290648

Luminaire Tested: **14GR-LD5-43-F1-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290648
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-3500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4261.0 lumens
Efficiency: N/A
Efficacy: 116.0 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

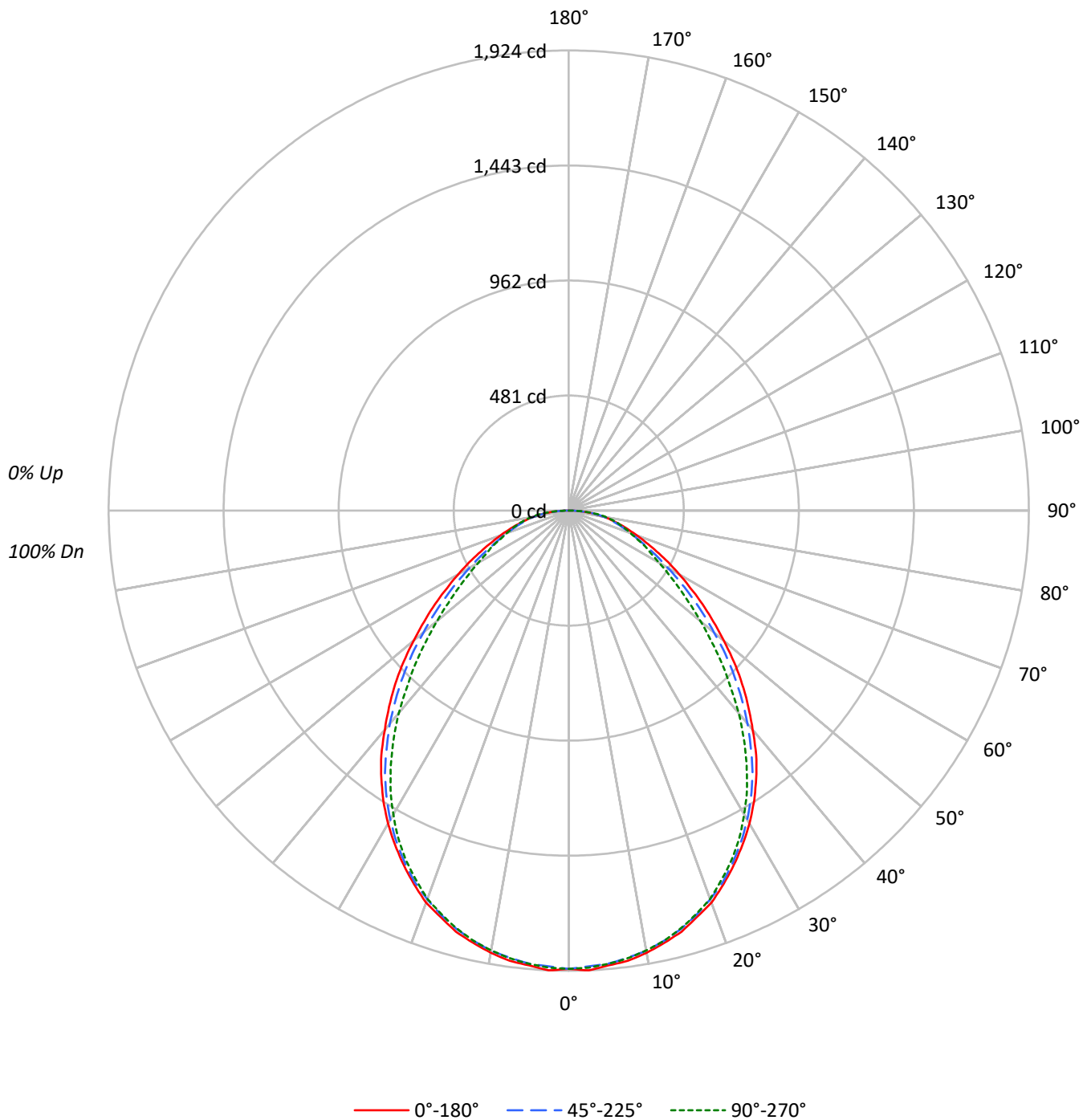
Input Watts (W): 36.735
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	5157	5157	5157
5°	5155	5137	5139
10°	5129	5105	5103
15°	5077	5048	5039
20°	4995	4953	4948
25°	4852	4820	4785
30°	4695	4637	4558
35°	4489	4402	4258
40°	4203	4086	3884
45°	3903	3728	3457
50°	3541	3320	3009
55°	3203	2933	2630
60°	2876	2570	2344
65°	2581	2295	2245
70°	2382	2136	2160
75°	2275	2143	2264
80°	2301	2286	2467
85°	2384	2353	2624



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.9	4.2
10°-20°	511.4	12.0
20°-30°	746.9	17.5
30°-40°	832.2	19.5
40°-50°	749.9	17.6
50°-60°	560.5	13.2
60°-70°	369.7	8.7
70°-80°	225.7	5.3
80°-90°	83.7	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°	1439.2	33.8
0°-40°	2271.4	53.3
0°-60°	3581.8	84.1
0°-90°	4261.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4261.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1916	1916	1916	1916	1916	
5°	1908	1906	1902	1911	1903	181
15°	1822	1816	1812	1822	1809	513
25°	1634	1628	1623	1626	1612	752
35°	1366	1355	1340	1317	1296	852
45°	1026	1015	980	935	908	789
55°	683	672	625	573	561	611
65°	405	393	360	346	353	406
75°	219	215	206	213	218	234
85°	77	74	76	84	85	82
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1916.3	1916.3	1916.3	1916.3	1916.3
2.5°	1924.1	1915.3	1907.5	1919.2	1912.4
5°	1908.5	1906.5	1901.6	1911.4	1902.6
7.5°	1898.7	1891.9	1886.0	1897.7	1888.0
10°	1877.2	1873.3	1868.4	1878.2	1867.4
12.5°	1850.8	1846.9	1842.1	1853.8	1842.1
15°	1822.5	1815.7	1811.8	1822.5	1808.8
17.5°	1781.5	1778.6	1772.7	1783.4	1769.8
20°	1744.4	1733.6	1729.7	1737.5	1727.8
22.5°	1690.7	1682.8	1681.9	1686.8	1670.2
25°	1634.0	1628.2	1623.3	1626.2	1611.5
27.5°	1574.4	1566.6	1560.8	1559.8	1544.2
30°	1511.0	1501.2	1492.4	1484.6	1467.0
32.5°	1441.6	1429.9	1418.2	1405.5	1386.9
35°	1366.4	1354.7	1340.0	1316.6	1296.1
37.5°	1287.3	1273.6	1250.2	1222.8	1202.3
40°	1196.5	1189.6	1163.2	1128.1	1105.6
42.5°	1111.5	1103.7	1070.5	1031.4	1001.1
45°	1025.5	1014.8	979.6	934.7	908.3
47.5°	937.6	926.9	887.8	832.1	808.7
50°	845.8	840.0	793.1	742.3	718.8
52.5°	761.8	755.0	707.1	656.3	634.9
55°	682.7	672.0	625.1	573.3	560.6
57.5°	603.6	591.9	547.9	504.0	495.2
60°	534.3	519.6	477.6	443.4	435.6
62.5°	468.8	452.2	417.0	390.7	386.8
65°	405.3	392.6	360.4	345.8	352.6
67.5°	350.6	337.9	314.5	308.6	306.7
70°	302.8	291.1	271.5	273.5	274.5
72.5°	258.8	252.0	237.3	242.2	246.1
75°	218.8	214.9	206.1	212.9	217.8
77.5°	182.6	179.7	175.8	181.7	189.5
80°	148.5	146.5	147.5	151.4	159.2
82.5°	114.3	110.4	113.3	121.1	126.0
85°	77.2	74.2	76.2	84.0	85.0
87.5°	36.1	36.1	35.2	41.0	41.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)