

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: P290692

Luminaire Tested: **14GR-LD5-20-F1-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290692
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-LD5-20-F1-UNV-L92765-W2A1-U-3500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1763.0 lumens
Efficiency: N/A
Efficacy: 113.5 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

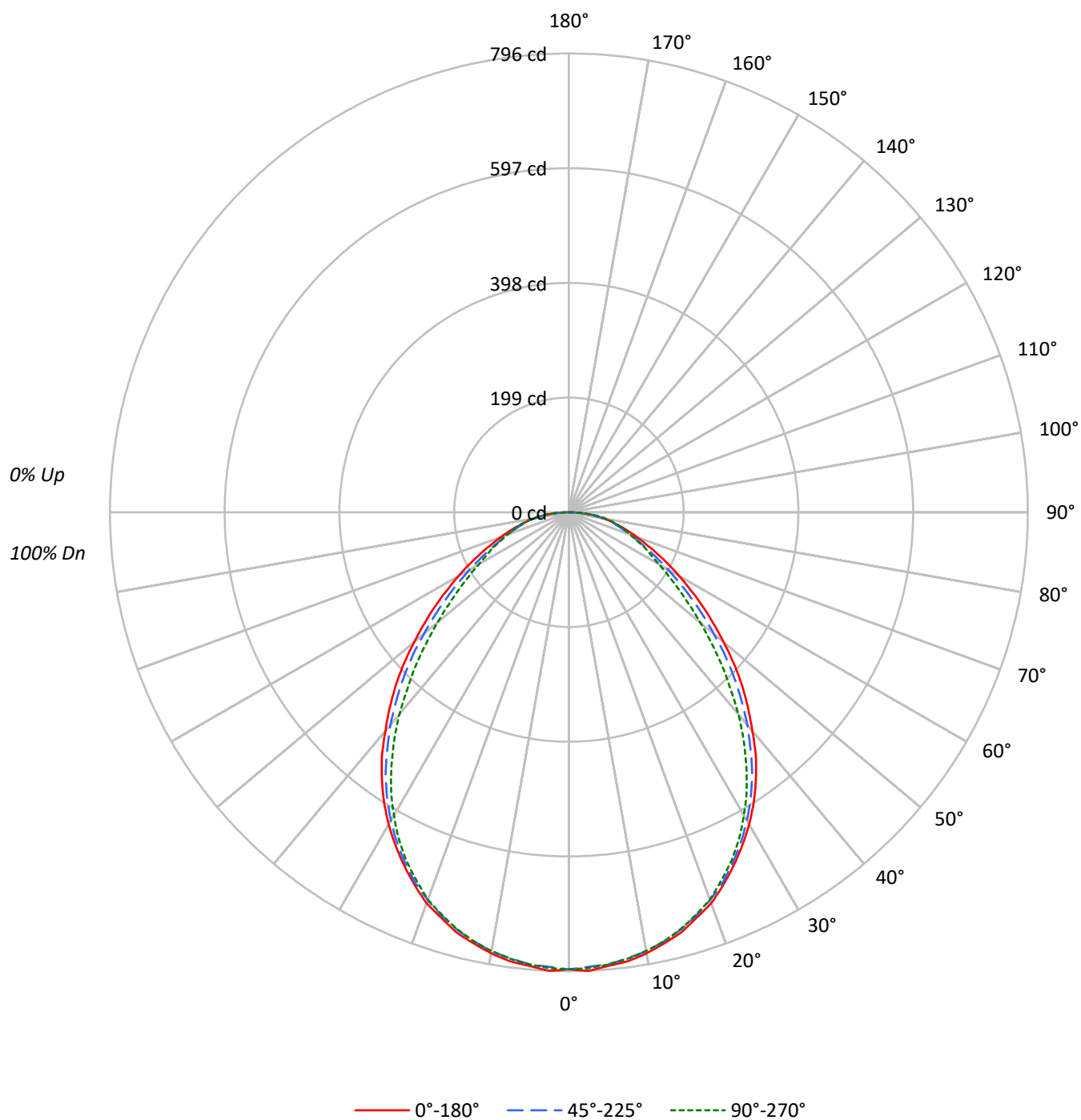
Input Watts (W): 15.531
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2134	2134	2134
5°	2133	2125	2126
10°	2122	2112	2111
15°	2101	2088	2085
20°	2067	2050	2047
25°	2007	1994	1980
30°	1943	1919	1886
35°	1857	1821	1762
40°	1739	1691	1607
45°	1615	1542	1430
50°	1465	1374	1245
55°	1325	1213	1088
60°	1189	1063	970
65°	1068	949	929
70°	986	884	894
75°	941	887	937
80°	951	945	1021
85°	985	973	1087



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.8	4.2
10°-20°	211.6	12.0
20°-30°	309.0	17.5
30°-40°	344.3	19.5
40°-50°	310.2	17.6
50°-60°	231.9	13.2
60°-70°	153.0	8.7
70°-80°	93.4	5.3
80°-90°	34.7	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°	595.5	33.8
0°-40°	939.8	53.3
0°-60°	1482.0	84.1
0°-90°	1763.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1763.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	793	793	793	793	793	
5°	790	789	787	791	787	75
15°	754	751	750	754	748	212
25°	676	674	672	673	667	311
35°	565	560	554	545	536	353
45°	424	420	405	387	376	327
55°	282	278	259	237	232	253
65°	168	162	149	143	146	168
75°	90	89	85	88	90	97
85°	32	31	32	35	35	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	792.9	792.9	792.9	792.9	792.9
2.5°	796.1	792.5	789.2	794.1	791.2
5°	789.6	788.8	786.8	790.8	787.2
7.5°	785.6	782.8	780.3	785.2	781.1
10°	776.7	775.1	773.1	777.1	772.7
12.5°	765.8	764.2	762.2	767.0	762.2
15°	754.1	751.2	749.6	754.1	748.4
17.5°	737.1	735.9	733.5	737.9	732.2
20°	721.7	717.3	715.7	718.9	714.9
22.5°	699.5	696.3	695.9	697.9	691.0
25°	676.1	673.7	671.6	672.8	666.8
27.5°	651.4	648.2	645.8	645.4	638.9
30°	625.2	621.1	617.5	614.2	607.0
32.5°	596.5	591.6	586.8	581.5	573.8
35°	565.4	560.5	554.4	544.7	536.3
37.5°	532.6	527.0	517.3	505.9	497.5
40°	495.0	492.2	481.3	466.7	457.5
42.5°	459.9	456.6	442.9	426.7	414.2
45°	424.3	419.9	405.3	386.7	375.8
47.5°	387.9	383.5	367.3	344.3	334.6
50°	350.0	347.5	328.1	307.1	297.4
52.5°	315.2	312.4	292.6	271.6	262.7
55°	282.5	278.0	258.6	237.2	232.0
57.5°	249.7	244.9	226.7	208.5	204.9
60°	221.0	215.0	197.6	183.5	180.2
62.5°	194.0	187.1	172.6	161.6	160.0
65°	167.7	162.5	149.1	143.1	145.9
67.5°	145.1	139.8	130.1	127.7	126.9
70°	125.3	120.4	112.3	113.2	113.6
72.5°	107.1	104.3	98.2	100.2	101.8
75°	90.5	88.9	85.3	88.1	90.1
77.5°	75.6	74.4	72.7	75.2	78.4
80°	61.4	60.6	61.0	62.6	65.9
82.5°	47.3	45.7	46.9	50.1	52.1
85°	31.9	30.7	31.5	34.8	35.2
87.5°	15.0	15.0	14.5	17.0	17.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)