

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: P290698

Luminaire Tested: **14GR-LD5-20-F1-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290698
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-6500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1956.0 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

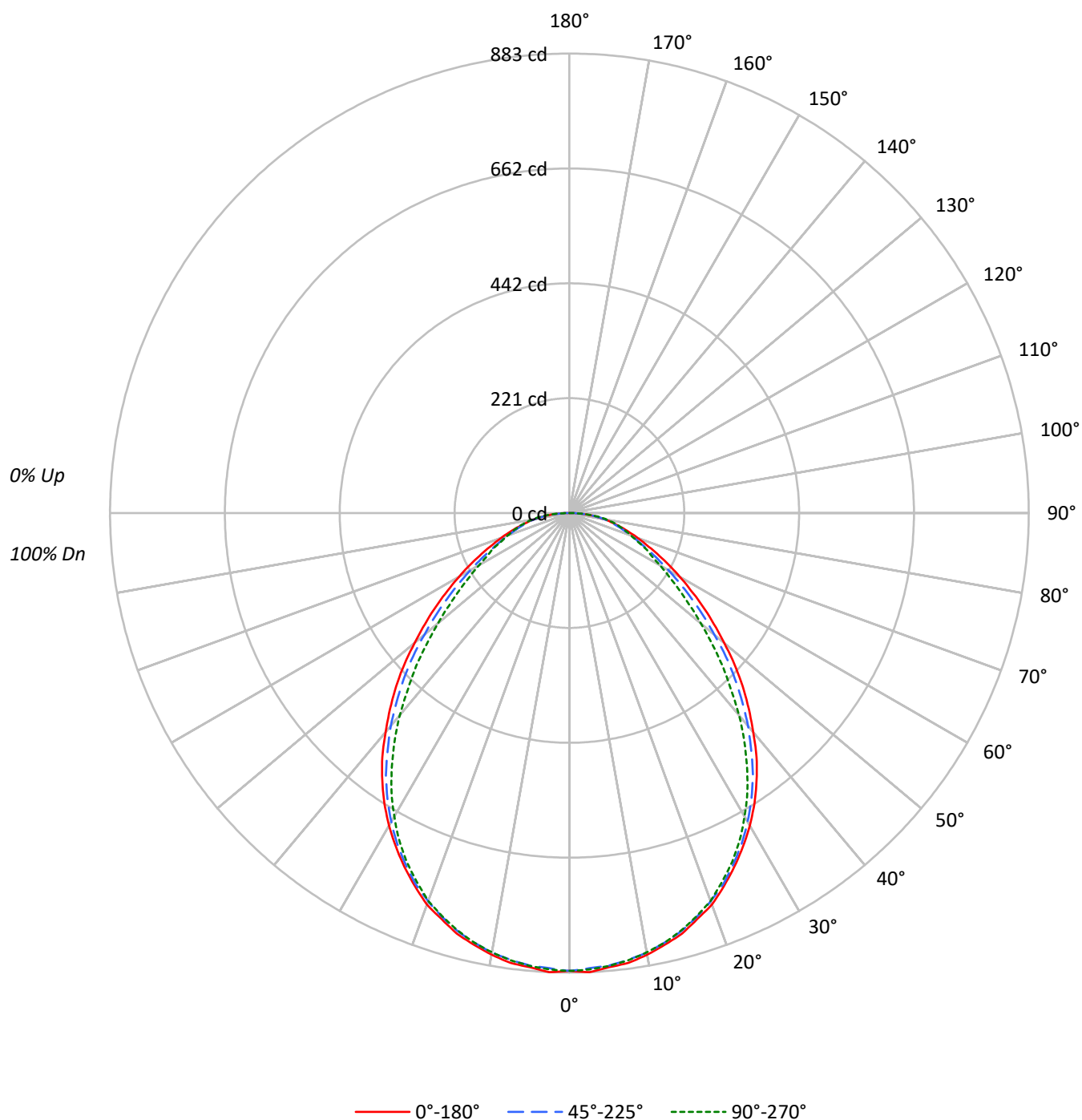
Input Watts (W): 16.275
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2367	2367	2367
5°	2367	2358	2359
10°	2355	2344	2342
15°	2331	2317	2313
20°	2293	2274	2271
25°	2227	2213	2197
30°	2155	2129	2092
35°	2060	2021	1955
40°	1929	1876	1783
45°	1792	1711	1587
50°	1626	1524	1382
55°	1470	1346	1208
60°	1320	1180	1076
65°	1185	1053	1031
70°	1094	980	991
75°	1044	984	1040
80°	1055	1049	1133
85°	1093	1081	1204



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.0	4.2
10°-20°	234.8	12.0
20°-30°	342.9	17.5
30°-40°	382.0	19.5
40°-50°	344.2	17.6
50°-60°	257.3	13.2
60°-70°	169.7	8.7
70°-80°	103.6	5.3
80°-90°	38.4	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°	660.7	33.8
0°-40°	1042.7	53.3
0°-60°	1644.2	84.1
0°-90°	1956.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1956.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	880	880	880	880	880	
5°	876	875	873	877	873	83
15°	837	834	832	837	830	235
25°	750	747	745	746	740	345
35°	627	622	615	604	595	391
45°	471	466	450	429	417	362
55°	313	308	287	263	257	281
65°	186	180	165	159	162	187
75°	100	99	95	98	100	107
85°	35	34	35	39	39	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	879.7	879.7	879.7	879.7	879.7
2.5°	883.2	879.2	875.6	881.0	877.9
5°	876.1	875.2	872.9	877.4	873.4
7.5°	871.6	868.5	865.8	871.1	866.7
10°	861.7	859.9	857.7	862.2	857.2
12.5°	849.6	847.8	845.6	851.0	845.6
15°	836.6	833.5	831.7	836.6	830.3
17.5°	817.8	816.4	813.8	818.7	812.4
20°	800.8	795.8	794.0	797.6	793.1
22.5°	776.1	772.5	772.1	774.3	766.7
25°	750.1	747.4	745.2	746.5	739.8
27.5°	722.7	719.2	716.5	716.0	708.8
30°	693.6	689.1	685.1	681.5	673.4
32.5°	661.8	656.4	651.0	645.2	636.7
35°	627.2	621.9	615.1	604.4	595.0
37.5°	590.9	584.6	573.9	561.3	551.9
40°	549.2	546.1	534.0	517.8	507.5
42.5°	510.2	506.6	491.4	473.5	459.6
45°	470.8	465.8	449.7	429.1	417.0
47.5°	430.4	425.5	407.6	382.0	371.2
50°	388.3	385.6	364.1	340.7	330.0
52.5°	349.7	346.6	324.6	301.3	291.4
55°	313.4	308.5	286.9	263.2	257.4
57.5°	277.1	271.7	251.5	231.3	227.3
60°	245.2	238.5	219.2	203.6	200.0
62.5°	215.2	207.6	191.4	179.3	177.5
65°	186.1	180.2	165.4	158.7	161.9
67.5°	161.0	155.1	144.4	141.7	140.8
70°	139.0	133.6	124.6	125.5	126.0
72.5°	118.8	115.7	108.9	111.2	113.0
75°	100.4	98.6	94.6	97.7	100.0
77.5°	83.8	82.5	80.7	83.4	87.0
80°	68.1	67.3	67.7	69.5	73.1
82.5°	52.5	50.7	52.0	55.6	57.8
85°	35.4	34.1	35.0	38.6	39.0
87.5°	16.6	16.6	16.1	18.8	18.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)