

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: P290754

Luminaire Tested: **14GR-LD5-20-F125-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290754
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33313)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-20-F125-UNV-L83050-W2A1-U-3500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2061.0 lumens
Efficiency: N/A
Efficacy: 132.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.16 / 1.24
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

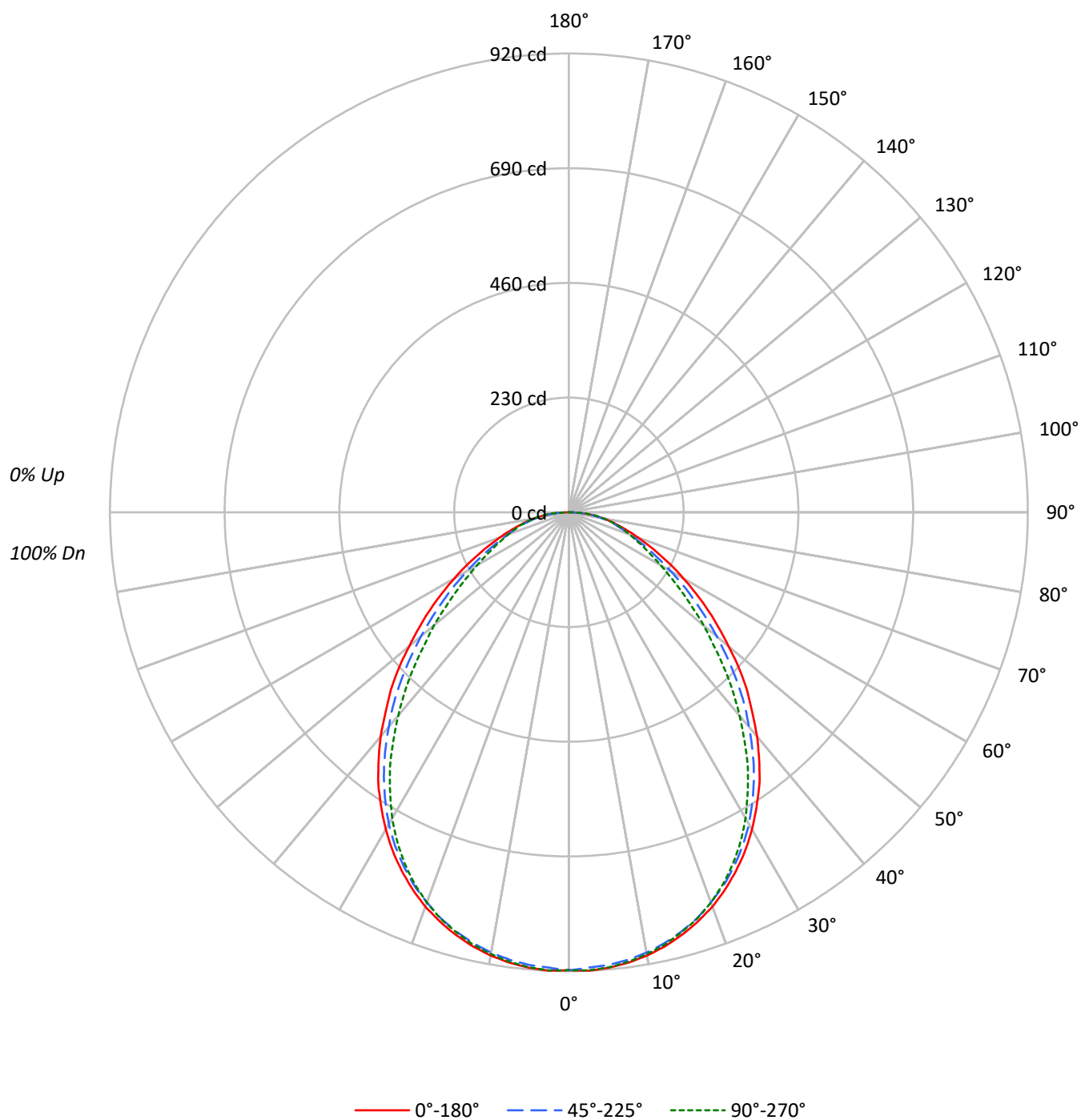
Input Watts (W): 15.531
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	88
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	58		66	61	57
5	79	67	58	52	77	66	58	52		64	57	51		62	55	51		60	54	50
6	73	60	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		51	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°	2471	2471	2471
5°	2476	2461	2474
10°	2465	2449	2457
15°	2443	2425	2428
20°	2409	2383	2384
25°	2354	2325	2310
30°	2282	2243	2201
35°	2188	2125	2055
40°	2061	1973	1869
45°	1922	1806	1671
50°	1748	1620	1477
55°	1591	1437	1287
60°	1427	1265	1143
65°	1272	1128	1051
70°	1157	1028	1017
75°	1081	1001	1051
80°	1086	1035	1094
85°	1136	1059	1210



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.8	4.2
10°-20°	246.1	11.9
20°-30°	360.9	17.5
30°-40°	402.8	19.5
40°-50°	364.7	17.7
50°-60°	275.3	13.4
60°-70°	180.0	8.7
70°-80°	105.7	5.1
80°-90°	38.7	1.9
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°	693.8	33.7
0°-40°	1096.6	53.2
0°-60°	1736.6	84.3
0°-90°	2061.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2061.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	918	918	918	918	918	
5°	917	915	911	916	916	87
15°	877	876	870	875	872	247
25°	793	790	783	782	778	365
35°	666	660	647	632	626	415
45°	505	497	475	449	439	388
55°	339	331	306	282	274	303
65°	200	194	177	167	165	200
75°	104	101	96	98	101	112
85°	37	35	34	39	39	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	918.2	918.2	918.2	918.2	918.2
2.5°	919.6	918.2	913.8	919.6	919.1
5°	916.7	914.8	910.9	916.2	915.7
7.5°	910.9	909.0	905.1	909.9	909.0
10°	902.2	900.3	896.4	901.7	899.3
12.5°	891.1	889.1	884.8	889.6	887.7
15°	877.0	875.6	870.3	875.1	871.7
17.5°	860.1	857.7	853.8	856.7	854.3
20°	841.2	838.3	832.1	835.0	832.5
22.5°	818.5	814.6	810.3	810.3	806.9
25°	792.9	790.0	783.2	781.7	777.9
27.5°	765.3	762.9	754.2	751.8	745.0
30°	734.3	731.0	721.8	714.0	708.2
32.5°	700.0	697.6	685.0	674.8	666.6
35°	666.1	660.3	646.8	632.3	625.5
37.5°	626.5	622.1	605.2	587.3	578.1
40°	586.8	581.5	561.6	541.8	532.1
42.5°	543.7	538.9	520.0	496.3	486.2
45°	505.0	497.3	474.6	448.9	439.2
47.5°	462.5	454.2	430.1	403.0	391.8
50°	417.5	412.2	387.0	360.9	352.7
52.5°	377.3	369.1	345.4	319.8	311.1
55°	339.1	331.4	306.2	282.0	274.3
57.5°	300.9	292.2	270.4	248.6	240.9
60°	265.1	256.4	235.1	217.2	212.4
62.5°	232.7	223.0	204.1	190.1	186.7
65°	199.8	193.5	177.1	166.9	165.0
67.5°	172.2	164.5	151.4	146.6	145.6
70°	147.1	141.7	130.6	129.2	129.2
72.5°	124.3	120.0	111.7	112.7	114.2
75°	104.0	101.1	96.3	98.2	101.1
77.5°	86.6	83.7	80.8	83.7	85.6
80°	70.1	67.2	66.8	69.2	70.6
82.5°	52.7	50.3	50.8	54.7	56.1
85°	36.8	35.3	34.3	38.7	39.2
87.5°	18.9	17.9	17.4	20.8	19.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)