

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: P290799

Luminaire Tested: **14GR-LD5-24-F125-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290799
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-LD5-24-F125-UNV-L82765-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: 2357.0 lumens
Efficiency: N/A
Efficacy: 128.7 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

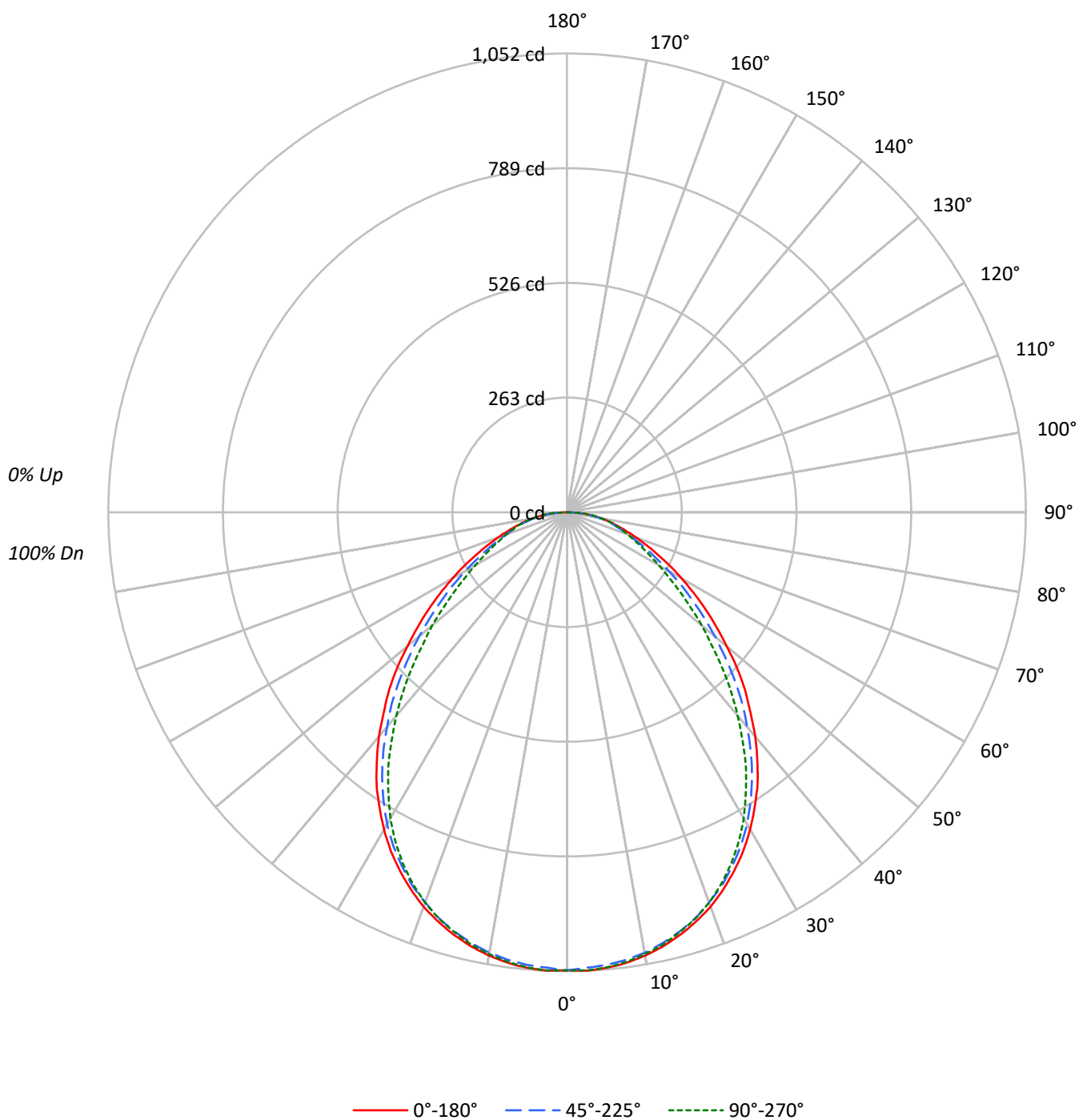
Input Watts (W): 18.321
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2826	2826	2826
5°	2832	2814	2829
10°	2819	2801	2810
15°	2794	2773	2777
20°	2755	2725	2727
25°	2692	2659	2641
30°	2609	2565	2517
35°	2503	2430	2350
40°	2357	2256	2138
45°	2198	2065	1912
50°	1999	1853	1688
55°	1819	1643	1472
60°	1632	1447	1307
65°	1455	1289	1202
70°	1323	1175	1162
75°	1236	1145	1202
80°	1243	1182	1252
85°	1297	1213	1383



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.3	4.2
10°-20°	281.5	11.9
20°-30°	412.7	17.5
30°-40°	460.6	19.5
40°-50°	417.0	17.7
50°-60°	314.9	13.4
60°-70°	205.8	8.7
70°-80°	120.9	5.1
80°-90°	44.3	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°	793.5	33.7
0°-40°	1254.1	53.2
0°-60°	1986.0	84.3
0°-90°	2357.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2357.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1050	1050	1050	1050	1050	
5°	1048	1046	1042	1048	1047	100
15°	1003	1001	995	1001	997	283
25°	907	903	896	894	890	417
35°	762	755	740	723	715	474
45°	578	569	543	513	502	444
55°	388	379	350	322	314	347
65°	228	221	202	191	189	229
75°	119	116	110	112	116	128
85°	42	40	39	44	45	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1050.0	1050.0	1050.0	1050.0	1050.0
2.5°	1051.7	1050.0	1045.0	1051.7	1051.1
5°	1048.4	1046.2	1041.7	1047.8	1047.3
7.5°	1041.7	1039.5	1035.1	1040.6	1039.5
10°	1031.8	1029.6	1025.1	1031.2	1028.5
12.5°	1019.0	1016.8	1011.9	1017.4	1015.2
15°	1003.0	1001.3	995.3	1000.8	996.9
17.5°	983.6	980.9	976.4	979.8	977.0
20°	962.1	958.7	951.6	954.9	952.1
22.5°	936.1	931.6	926.7	926.7	922.8
25°	906.7	903.4	895.7	894.0	889.6
27.5°	875.2	872.4	862.5	859.7	852.0
30°	839.8	835.9	825.4	816.6	809.9
32.5°	800.5	797.8	783.4	771.8	762.3
35°	761.8	755.2	739.7	723.1	715.3
37.5°	716.4	711.5	692.1	671.6	661.1
40°	671.1	665.0	642.3	619.6	608.6
42.5°	621.8	616.3	594.7	567.6	556.0
45°	577.6	568.7	542.7	513.4	502.3
47.5°	528.9	519.5	491.8	460.8	448.1
50°	477.4	471.4	442.6	412.7	403.3
52.5°	431.5	422.1	395.0	365.7	355.7
55°	387.8	379.0	350.2	322.5	313.7
57.5°	344.1	334.2	309.3	284.4	275.5
60°	303.2	293.2	268.9	248.4	242.9
62.5°	266.1	255.0	233.5	217.4	213.5
65°	228.5	221.3	202.5	190.9	188.7
67.5°	196.9	188.1	173.2	167.6	166.5
70°	168.2	162.1	149.4	147.7	147.7
72.5°	142.2	137.2	127.8	128.9	130.6
75°	118.9	115.6	110.1	112.3	115.6
77.5°	99.0	95.7	92.4	95.7	97.9
80°	80.2	76.9	76.3	79.1	80.8
82.5°	60.3	57.5	58.1	62.5	64.2
85°	42.0	40.4	39.3	44.3	44.8
87.5°	21.6	20.5	19.9	23.8	22.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)