

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: P290759

Luminaire Tested: **14GR-LD5-24-F125-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290759
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-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: 2413.0 lumens
Efficiency: N/A
Efficacy: 132.4 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

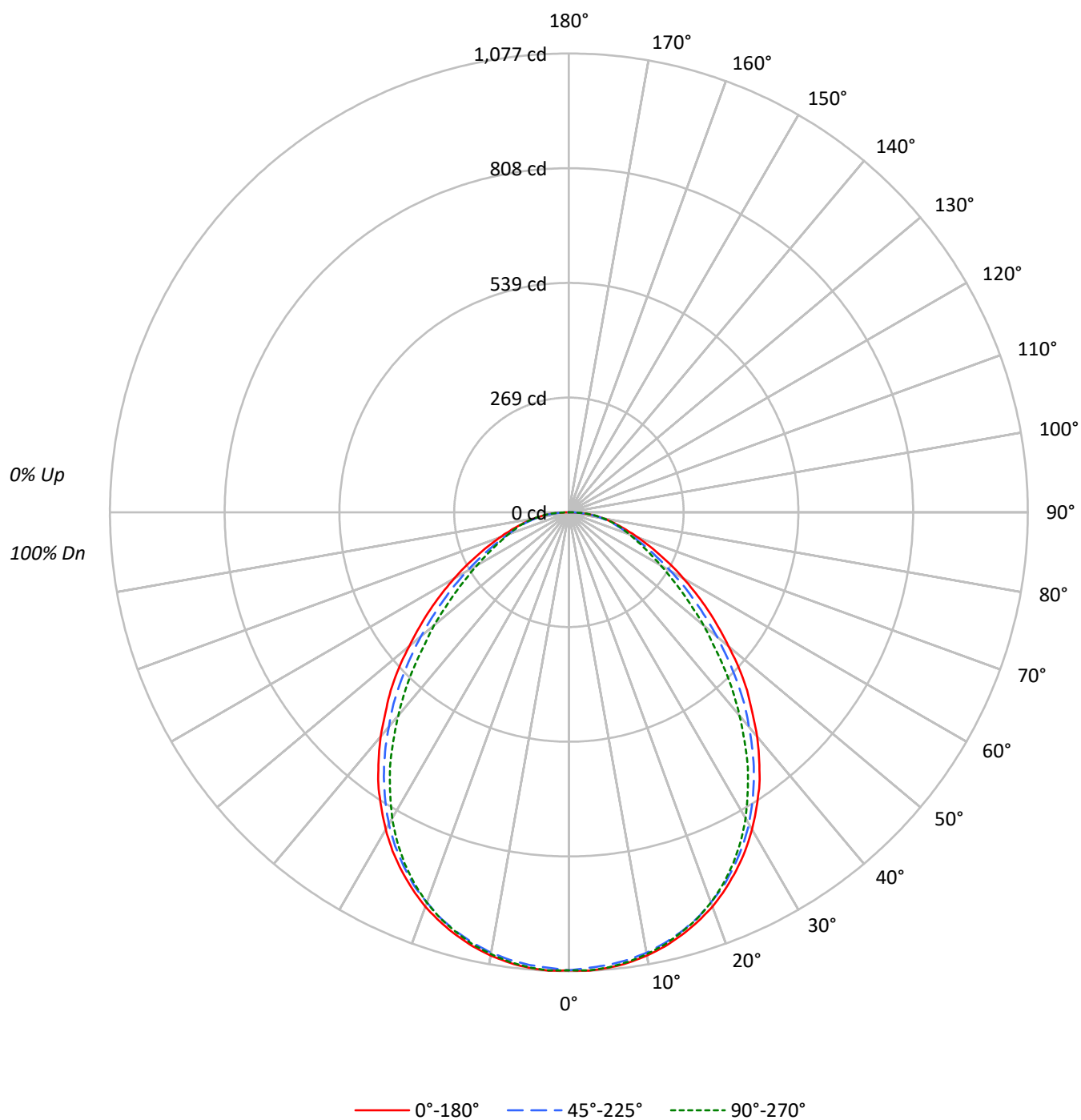
Input Watts (W): 18.228
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0			
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	88	85			
2	101	93	87	81	98	91	85	80	88	83	78	84	80	77	81	78	75	73			
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63			
4	85	74	66	59	83	73	65	59	70	64	58	68	62	58	66	61	57	55			
5	79	67	58	52	77	66	58	52	64	57	51	62	55	51	60	54	50	48			
6	73	60	52	46	71	60	52	46	58	51	45	56	50	45	55	49	45	43			
7	68	55	47	41	66	54	47	41	53	46	41	51	45	40	50	44	40	38			
8	64	51	43	37	62	50	42	37	49	42	37	47	41	36	46	41	36	34			
9	60	47	39	34	58	46	39	33	45	38	33	44	38	33	43	37	33	31			
10	56	43	36	31	55	43	35	31	42	35	30	41	35	30	40	34	30	28			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2893	2893	2893
5°	2899	2881	2896
10°	2886	2868	2877
15°	2861	2839	2843
20°	2820	2790	2791
25°	2756	2723	2704
30°	2672	2626	2577
35°	2562	2487	2406
40°	2413	2310	2188
45°	2250	2114	1957
50°	2046	1897	1729
55°	1863	1682	1506
60°	1671	1482	1338
65°	1489	1320	1230
70°	1355	1203	1190
75°	1266	1172	1231
80°	1272	1212	1282
85°	1328	1241	1417



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.7	4.2
10°-20°	288.2	11.9
20°-30°	422.5	17.5
30°-40°	471.6	19.5
40°-50°	426.9	17.7
50°-60°	322.4	13.4
60°-70°	210.7	8.7
70°-80°	123.8	5.1
80°-90°	45.3	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°	812.3	33.7
0°-40°	1283.9	53.2
0°-60°	2033.2	84.3
0°-90°	2413.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2413.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1075	1075	1075	1075	1075	
5°	1073	1071	1066	1073	1072	102
15°	1027	1025	1019	1025	1021	289
25°	928	925	917	915	911	427
35°	780	773	757	740	732	486
45°	591	582	556	526	514	454
55°	397	388	358	330	321	355
65°	234	226	207	195	193	235
75°	122	118	113	115	118	131
85°	43	41	40	45	46	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1075.0	1075.0	1075.0	1075.0	1075.0
2.5°	1076.7	1075.0	1069.9	1076.7	1076.1
5°	1073.3	1071.0	1066.5	1072.7	1072.1
7.5°	1066.5	1064.2	1059.7	1065.3	1064.2
10°	1056.3	1054.0	1049.5	1055.7	1052.9
12.5°	1043.3	1041.0	1035.9	1041.6	1039.3
15°	1026.8	1025.1	1018.9	1024.6	1020.6
17.5°	1007.0	1004.2	999.6	1003.0	1000.2
20°	984.9	981.5	974.2	977.6	974.7
22.5°	958.3	953.8	948.7	948.7	944.7
25°	928.3	924.9	917.0	915.3	910.7
27.5°	896.0	893.2	883.0	880.1	872.2
30°	859.8	855.8	845.0	836.0	829.2
32.5°	819.5	816.7	802.0	790.1	780.5
35°	779.9	773.1	757.2	740.2	732.3
37.5°	733.5	728.4	708.5	687.6	676.8
40°	687.0	680.8	657.6	634.3	623.0
42.5°	636.6	630.9	608.9	581.1	569.2
45°	591.3	582.2	555.6	525.6	514.3
47.5°	541.5	531.8	503.5	471.8	458.8
50°	488.8	482.5	453.1	422.5	412.9
52.5°	441.8	432.1	404.4	374.4	364.2
55°	397.0	388.0	358.5	330.2	321.1
57.5°	352.3	342.1	316.6	291.1	282.1
60°	310.4	300.2	275.3	254.3	248.6
62.5°	272.4	261.1	239.0	222.6	218.6
65°	233.9	226.5	207.3	195.4	193.1
67.5°	201.6	192.6	177.3	171.6	170.5
70°	172.2	165.9	152.9	151.2	151.2
72.5°	145.6	140.5	130.8	132.0	133.7
75°	121.8	118.4	112.7	115.0	118.4
77.5°	101.4	98.0	94.6	98.0	100.2
80°	82.1	78.7	78.2	81.0	82.7
82.5°	61.7	58.9	59.5	64.0	65.7
85°	43.0	41.3	40.2	45.3	45.9
87.5°	22.1	21.0	20.4	24.4	23.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)