

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: P290765

Luminaire Tested: **14GR-LD5-28-F125-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290765
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-LD5-28-F125-UNV-L83050-W2A1-U-4000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3025.0 lumens
Efficiency: N/A
Efficacy: 133.3 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

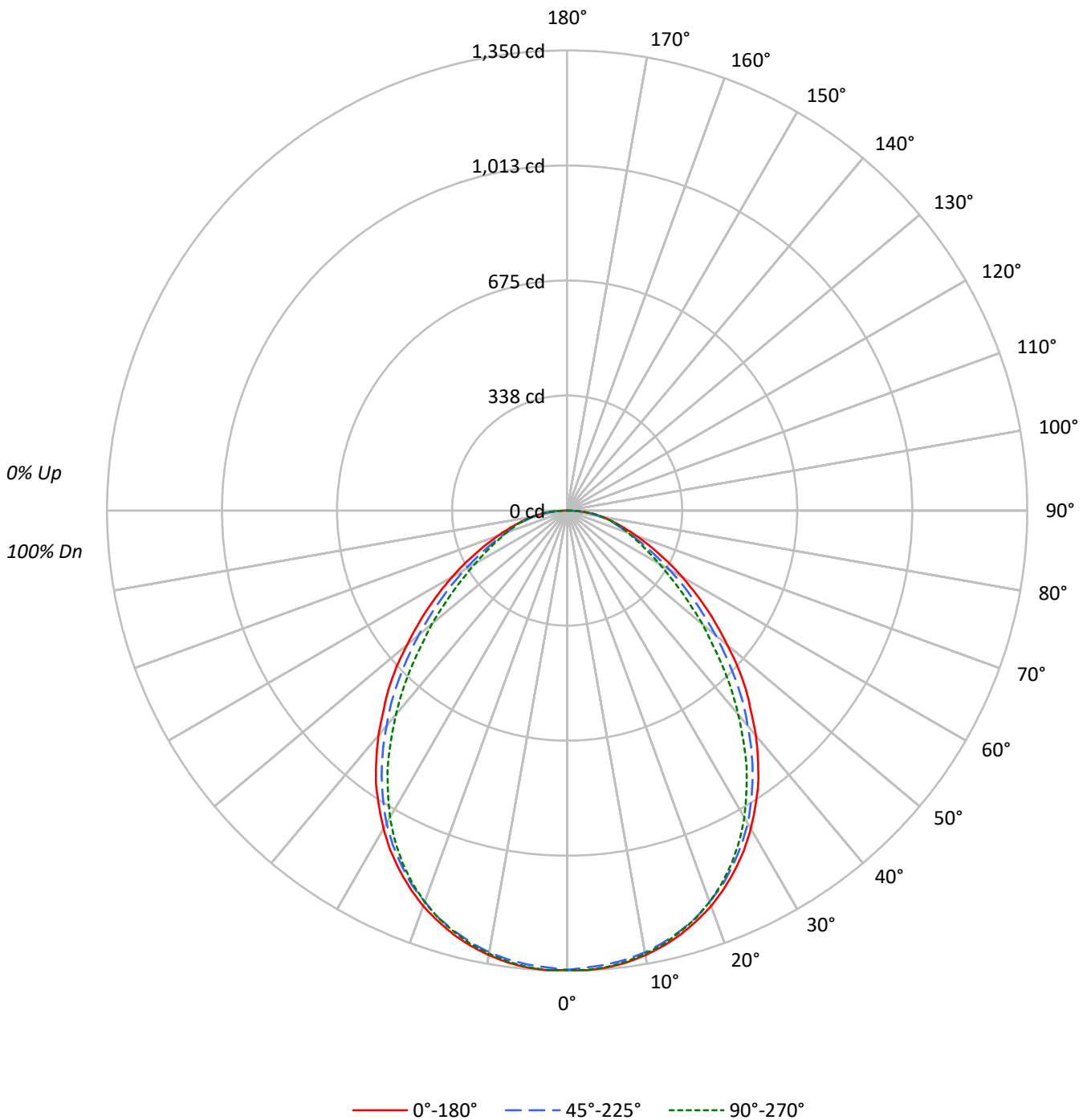
Input Watts (W): 22.692
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3626	3626	3626
5°	3635	3612	3631
10°	3618	3595	3607
15°	3586	3558	3565
20°	3536	3497	3499
25°	3455	3413	3390
30°	3349	3292	3230
35°	3212	3119	3016
40°	3026	2896	2744
45°	2821	2651	2453
50°	2565	2378	2167
55°	2335	2108	1889
60°	2094	1857	1678
65°	1867	1655	1542
70°	1698	1508	1492
75°	1588	1469	1543
80°	1596	1519	1607
85°	1667	1556	1775



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.4	4.2
10°-20°	361.2	11.9
20°-30°	529.7	17.5
30°-40°	591.2	19.5
40°-50°	535.2	17.7
50°-60°	404.1	13.4
60°-70°	264.2	8.7
70°-80°	155.2	5.1
80°-90°	56.8	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°	1018.3	33.7
0°-40°	1609.5	53.2
0°-60°	2548.9	84.3
0°-90°	3025.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3025.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1348	1348	1348	1348	1348	
5°	1346	1343	1337	1345	1344	128
15°	1287	1285	1277	1284	1280	363
25°	1164	1160	1150	1147	1142	535
35°	978	969	949	928	918	609
45°	741	730	696	659	645	570
55°	498	486	449	414	403	445
65°	293	284	260	245	242	294
75°	153	148	141	144	148	164
85°	54	52	50	57	58	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1347.6	1347.6	1347.6	1347.6	1347.6
2.5°	1349.7	1347.6	1341.2	1349.7	1349.0
5°	1345.5	1342.6	1337.0	1344.8	1344.1
7.5°	1337.0	1334.1	1328.4	1335.5	1334.1
10°	1324.2	1321.3	1315.7	1323.5	1319.9
12.5°	1307.9	1305.0	1298.6	1305.7	1302.9
15°	1287.3	1285.1	1277.3	1284.4	1279.5
17.5°	1262.4	1258.9	1253.2	1257.4	1253.9
20°	1234.7	1230.5	1221.2	1225.5	1221.9
22.5°	1201.4	1195.7	1189.3	1189.3	1184.3
25°	1163.7	1159.5	1149.5	1147.4	1141.7
27.5°	1123.3	1119.7	1106.9	1103.4	1093.4
30°	1077.8	1072.8	1059.4	1048.0	1039.5
32.5°	1027.4	1023.8	1005.4	990.5	978.4
35°	977.7	969.2	949.3	928.0	918.1
37.5°	919.5	913.1	888.2	862.0	848.5
40°	861.3	853.4	824.3	795.2	781.0
42.5°	798.1	791.0	763.3	728.5	713.6
45°	741.3	729.9	696.5	658.9	644.7
47.5°	678.8	666.7	631.2	591.4	575.1
50°	612.7	604.9	568.0	529.7	517.6
52.5°	553.8	541.7	507.0	469.3	456.5
55°	497.7	486.4	449.4	413.9	402.6
57.5°	441.6	428.9	396.9	365.0	353.6
60°	389.1	376.3	345.1	318.8	311.7
62.5°	341.5	327.3	299.6	279.0	274.1
65°	293.2	284.0	259.9	245.0	242.1
67.5°	252.8	241.4	222.2	215.1	213.7
70°	215.8	208.0	191.7	189.6	189.6
72.5°	182.5	176.1	164.0	165.4	167.6
75°	152.7	148.4	141.3	144.1	148.4
77.5°	127.1	122.8	118.6	122.8	125.7
80°	103.0	98.7	98.0	101.5	103.7
82.5°	77.4	73.8	74.6	80.2	82.4
85°	54.0	51.8	50.4	56.8	57.5
87.5°	27.7	26.3	25.6	30.5	29.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)