

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: P290817

Luminaire Tested: **14GR-LD5-32-F125-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290817
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-LD5-32-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: 3194.0 lumens
Efficiency: N/A
Efficacy: 124.0 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

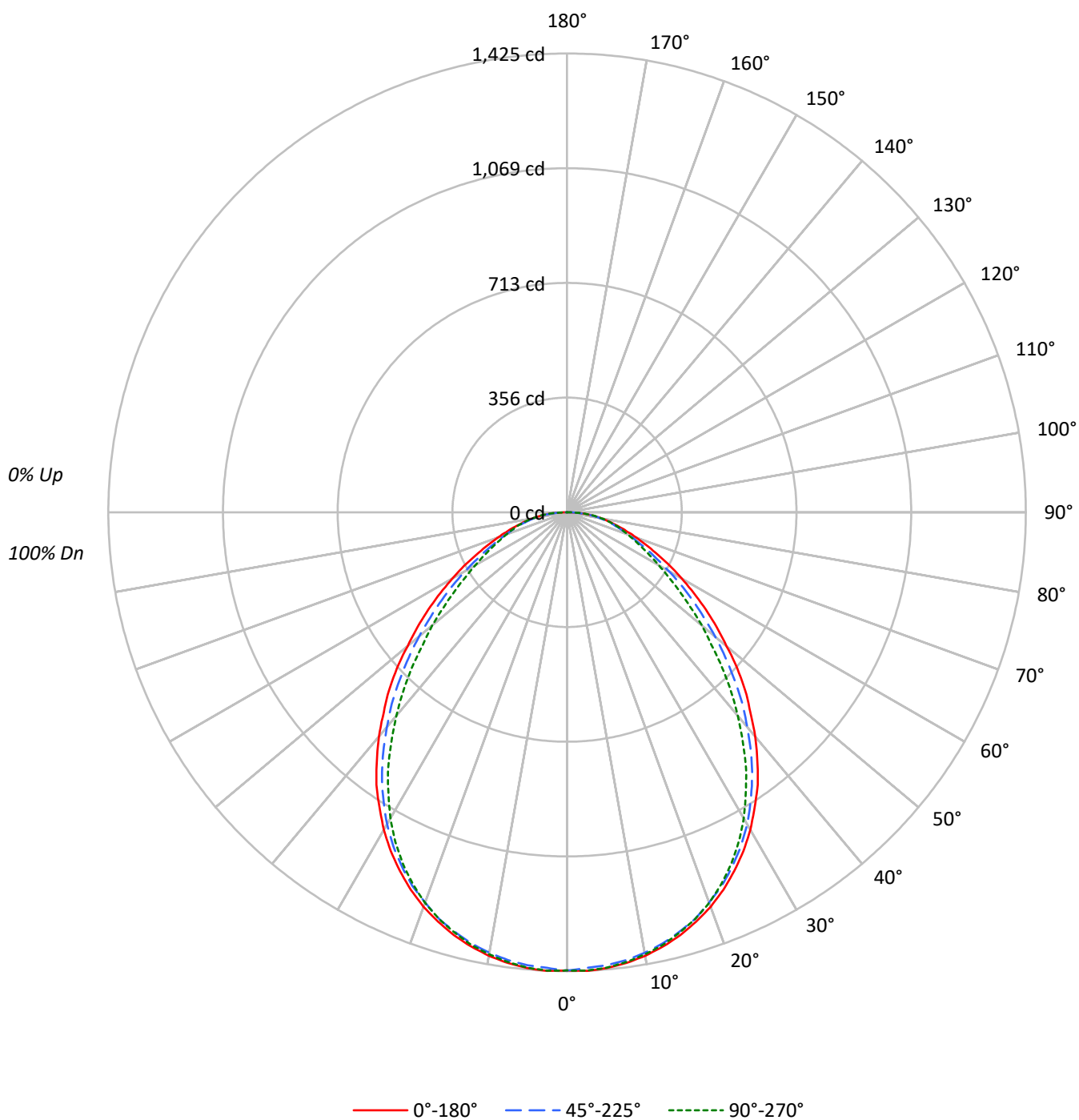
Input Watts (W): 25.761
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3829	3829	3829
5°	3838	3813	3834
10°	3821	3796	3808
15°	3787	3757	3763
20°	3733	3693	3695
25°	3648	3604	3579
30°	3536	3475	3410
35°	3391	3293	3184
40°	3195	3058	2897
45°	2979	2799	2590
50°	2709	2511	2288
55°	2465	2227	1994
60°	2211	1961	1771
65°	1971	1747	1628
70°	1793	1592	1575
75°	1676	1551	1629
80°	1684	1604	1697
85°	1760	1643	1874



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.6	4.2
10°-20°	381.4	11.9
20°-30°	559.3	17.5
30°-40°	624.2	19.5
40°-50°	565.1	17.7
50°-60°	426.7	13.4
60°-70°	278.9	8.7
70°-80°	163.8	5.1
80°-90°	60.0	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°	1075.2	33.7
0°-40°	1699.4	53.2
0°-60°	2691.3	84.3
0°-90°	3194.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3194.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1423	1423	1423	1423	1423	
5°	1421	1418	1412	1420	1419	135
15°	1359	1357	1349	1356	1351	383
25°	1229	1224	1214	1212	1206	565
35°	1032	1023	1002	980	969	643
45°	783	771	735	696	681	601
55°	526	514	475	437	425	470
65°	310	300	274	259	256	311
75°	161	157	149	152	157	173
85°	57	55	53	60	61	60
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1422.9	1422.9	1422.9	1422.9	1422.9
2.5°	1425.2	1422.9	1416.2	1425.2	1424.4
5°	1420.7	1417.7	1411.7	1419.9	1419.2
7.5°	1411.7	1408.7	1402.7	1410.2	1408.7
10°	1398.2	1395.2	1389.2	1397.4	1393.7
12.5°	1380.9	1377.9	1371.2	1378.7	1375.7
15°	1359.2	1356.9	1348.7	1356.2	1350.9
17.5°	1332.9	1329.2	1323.2	1327.7	1323.9
20°	1303.7	1299.2	1289.5	1294.0	1290.2
22.5°	1268.5	1262.5	1255.7	1255.7	1250.5
25°	1228.7	1224.2	1213.7	1211.5	1205.5
27.5°	1186.0	1182.3	1168.8	1165.0	1154.5
30°	1138.0	1132.8	1118.5	1106.5	1097.5
32.5°	1084.8	1081.0	1061.6	1045.8	1033.1
35°	1032.3	1023.3	1002.3	979.8	969.3
37.5°	970.8	964.1	937.9	910.1	895.9
40°	909.4	901.1	870.4	839.6	824.7
42.5°	842.6	835.2	805.9	769.2	753.4
45°	782.7	770.7	735.4	695.7	680.7
47.5°	716.7	704.0	666.5	624.5	607.2
50°	647.0	638.7	599.7	559.3	546.5
52.5°	584.8	572.0	535.3	495.5	482.0
55°	525.5	513.5	474.6	437.1	425.1
57.5°	466.3	452.8	419.1	385.3	373.3
60°	410.8	397.3	364.3	336.6	329.1
62.5°	360.6	345.6	316.4	294.6	289.4
65°	309.6	299.9	274.4	258.6	255.6
67.5°	266.9	254.9	234.7	227.2	225.7
70°	227.9	219.7	202.4	200.2	200.2
72.5°	192.7	185.9	173.2	174.7	176.9
75°	161.2	156.7	149.2	152.2	156.7
77.5°	134.2	129.7	125.2	129.7	132.7
80°	108.7	104.2	103.5	107.2	109.5
82.5°	81.7	78.0	78.7	84.7	87.0
85°	57.0	54.7	53.2	60.0	60.7
87.5°	29.2	27.7	27.0	32.2	30.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)