

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: P290717

Luminaire Tested: **14GR-LD5-32-F1-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290717
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-084-7)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-32-F1-UNV-L92765-W2A1-U-2700K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2562.0 lumens
Efficiency: N/A
Efficacy: 100.2 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.15 / 1.23
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

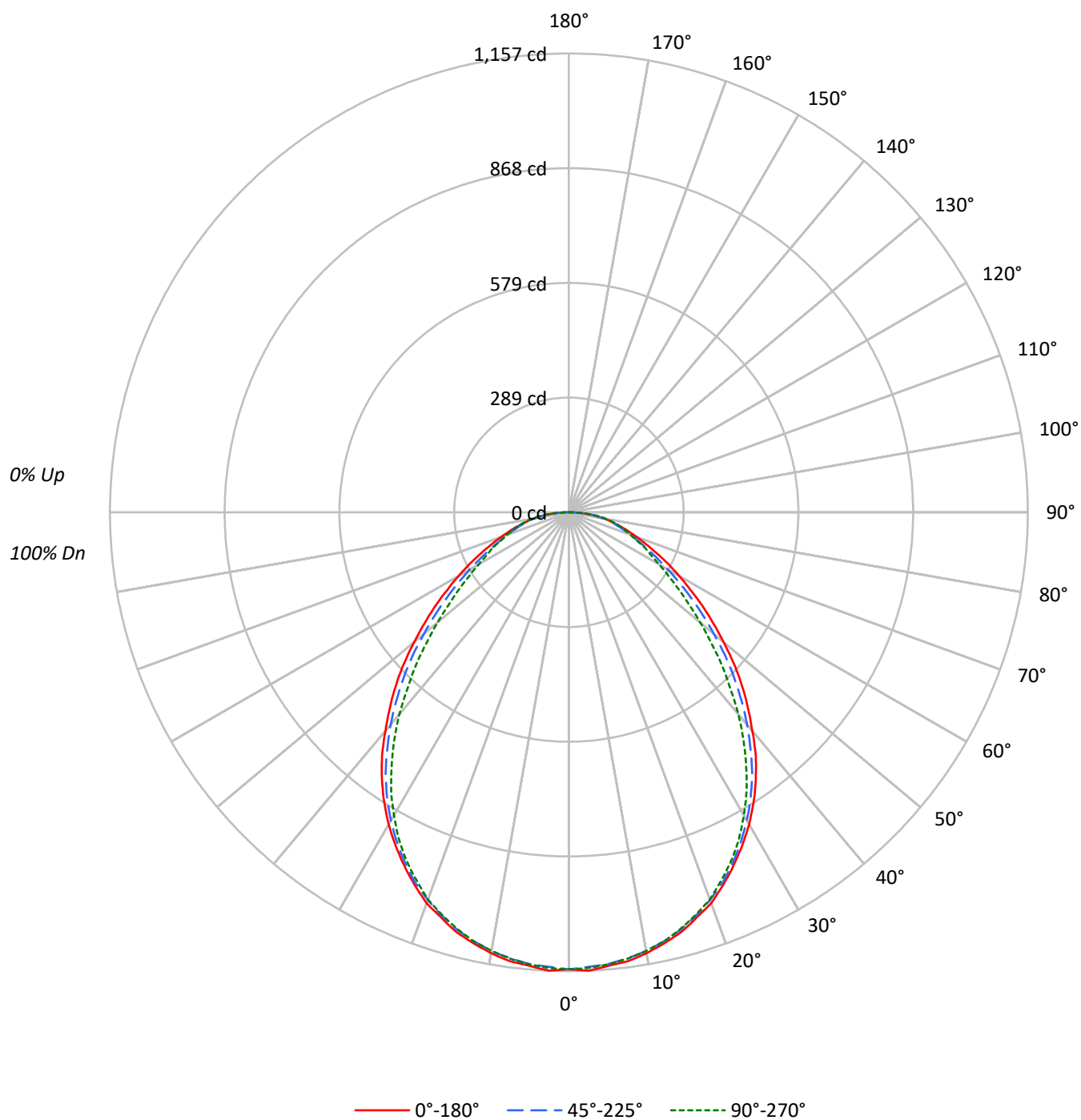
Input Watts (W): 25.575
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	87
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	57		66	61	57
5	79	67	58	52	77	66	58	52		64	57	51		62	55	51		60	54	50
6	73	61	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		52	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°	3101	3101	3101
5°	3100	3089	3090
10°	3084	3070	3068
15°	3053	3035	3030
20°	3003	2978	2975
25°	2917	2898	2877
30°	2823	2788	2741
35°	2699	2647	2560
40°	2527	2457	2335
45°	2347	2242	2078
50°	2129	1997	1809
55°	1926	1763	1582
60°	1729	1546	1410
65°	1552	1380	1350
70°	1432	1285	1298
75°	1367	1288	1362
80°	1384	1375	1483
85°	1433	1414	1578



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.8	4.2
10°-20°	307.5	12.0
20°-30°	449.1	17.5
30°-40°	500.4	19.5
40°-50°	450.9	17.6
50°-60°	337.0	13.2
60°-70°	222.3	8.7
70°-80°	135.7	5.3
80°-90°	50.3	2.0
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°	865.3	33.8
0°-40°	1365.7	53.3
0°-60°	2153.6	84.1
0°-90°	2562.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2562.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1152	1152	1152	1152	1152	
5°	1148	1146	1143	1149	1144	109
15°	1096	1092	1089	1096	1088	308
25°	982	979	976	978	969	452
35°	822	814	806	792	779	512
45°	617	610	589	562	546	475
55°	410	404	376	345	337	368
65°	244	236	217	208	212	244
75°	132	129	124	128	131	140
85°	46	45	46	50	51	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1152.2	1152.2	1152.2	1152.2	1152.2
2.5°	1156.9	1151.6	1146.9	1154.0	1149.8
5°	1147.5	1146.3	1143.4	1149.3	1144.0
7.5°	1141.6	1137.5	1134.0	1141.0	1135.2
10°	1128.7	1126.4	1123.4	1129.3	1122.8
12.5°	1112.9	1110.5	1107.6	1114.6	1107.6
15°	1095.8	1091.7	1089.4	1095.8	1087.6
17.5°	1071.2	1069.4	1065.9	1072.3	1064.1
20°	1048.8	1042.4	1040.0	1044.7	1038.9
22.5°	1016.5	1011.8	1011.3	1014.2	1004.2
25°	982.5	979.0	976.0	977.8	969.0
27.5°	946.7	942.0	938.4	937.8	928.5
30°	908.5	902.6	897.3	892.6	882.1
32.5°	866.8	859.7	852.7	845.1	833.9
35°	821.6	814.5	805.7	791.6	779.3
37.5°	774.0	765.8	751.7	735.2	722.9
40°	719.4	715.3	699.4	678.3	664.8
42.5°	668.3	663.6	643.6	620.1	601.9
45°	616.6	610.2	589.0	562.0	546.1
47.5°	563.8	557.3	533.8	500.3	486.2
50°	508.6	505.0	476.9	446.3	432.2
52.5°	458.1	453.9	425.2	394.6	381.7
55°	410.5	404.0	375.8	344.7	337.1
57.5°	362.9	355.9	329.5	303.0	297.7
60°	321.2	312.4	287.2	266.6	261.9
62.5°	281.9	271.9	250.8	234.9	232.6
65°	243.7	236.1	216.7	207.9	212.0
67.5°	210.8	203.2	189.1	185.6	184.4
70°	182.0	175.0	163.3	164.4	165.0
72.5°	155.6	151.5	142.7	145.6	148.0
75°	131.5	129.2	123.9	128.0	131.0
77.5°	109.8	108.1	105.7	109.2	113.9
80°	89.3	88.1	88.7	91.0	95.7
82.5°	68.7	66.4	68.1	72.8	75.8
85°	46.4	44.6	45.8	50.5	51.1
87.5°	21.7	21.7	21.1	24.7	24.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)