

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: P290627

Luminaire Tested: **14GR-LD5-32-F1-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290627
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-L82765-W2A1-U-6500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3418.0 lumens
Efficiency: N/A
Efficacy: 127.6 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

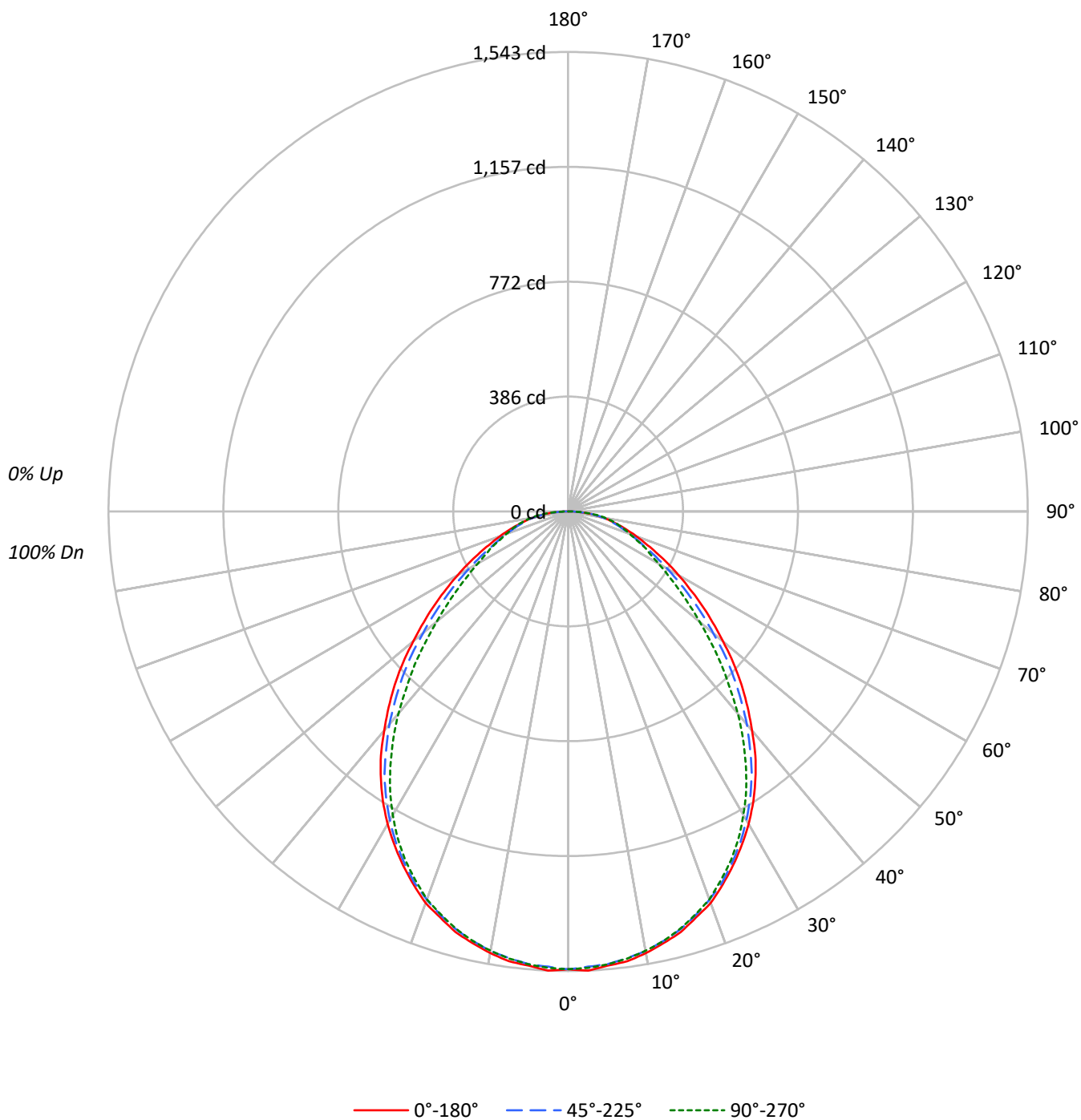
Input Watts (W): 26.784
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4137	4137	4137
5°	4135	4120	4123
10°	4115	4095	4093
15°	4073	4049	4042
20°	4007	3973	3969
25°	3892	3866	3838
30°	3766	3720	3657
35°	3601	3531	3415
40°	3371	3278	3116
45°	3131	2990	2773
50°	2840	2663	2414
55°	2569	2352	2110
60°	2307	2062	1880
65°	2070	1841	1801
70°	1911	1714	1733
75°	1825	1719	1816
80°	1846	1833	1979
85°	1911	1886	2106



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.1	4.2
10°-20°	410.2	12.0
20°-30°	599.1	17.5
30°-40°	667.6	19.5
40°-50°	601.5	17.6
50°-60°	449.6	13.2
60°-70°	296.6	8.7
70°-80°	181.1	5.3
80°-90°	67.2	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°	1154.5	33.8
0°-40°	1822.0	53.3
0°-60°	2873.2	84.1
0°-90°	3418.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3418.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1537	1537	1537	1537	1537	
5°	1531	1529	1525	1533	1526	145
15°	1462	1456	1453	1462	1451	411
25°	1311	1306	1302	1304	1293	603
35°	1096	1087	1075	1056	1040	683
45°	823	814	786	750	729	633
55°	548	539	501	460	450	490
65°	325	315	289	277	283	326
75°	176	172	165	171	175	187
85°	62	60	61	67	68	66
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1537.2	1537.2	1537.2	1537.2	1537.2
2.5°	1543.4	1536.4	1530.1	1539.5	1534.0
5°	1530.9	1529.3	1525.4	1533.2	1526.2
7.5°	1523.1	1517.6	1512.9	1522.3	1514.4
10°	1505.8	1502.7	1498.8	1506.6	1498.0
12.5°	1484.7	1481.5	1477.6	1487.0	1477.6
15°	1461.9	1456.5	1453.3	1461.9	1451.0
17.5°	1429.0	1426.7	1422.0	1430.6	1419.6
20°	1399.3	1390.7	1387.5	1393.8	1386.0
22.5°	1356.2	1349.9	1349.1	1353.0	1339.7
25°	1310.7	1306.0	1302.1	1304.5	1292.7
27.5°	1262.9	1256.7	1252.0	1251.2	1238.7
30°	1212.0	1204.2	1197.1	1190.9	1176.8
32.5°	1156.4	1147.0	1137.6	1127.4	1112.5
35°	1096.1	1086.7	1074.9	1056.1	1039.7
37.5°	1032.6	1021.6	1002.8	980.9	964.4
40°	959.7	954.3	933.1	904.9	886.9
42.5°	891.6	885.3	858.7	827.3	803.1
45°	822.6	814.0	785.8	749.8	728.6
47.5°	752.1	743.5	712.2	667.5	648.7
50°	678.5	673.8	636.2	595.4	576.6
52.5°	611.1	605.6	567.2	526.5	509.3
55°	547.6	539.0	501.4	459.9	449.7
57.5°	484.2	474.8	439.5	404.3	397.2
60°	428.6	416.8	383.1	355.7	349.4
62.5°	376.1	362.7	334.5	313.4	310.3
65°	325.1	315.0	289.1	277.3	282.8
67.5°	281.3	271.1	252.3	247.6	246.0
70°	242.9	233.5	217.8	219.4	220.2
72.5°	207.6	202.1	190.4	194.3	197.4
75°	175.5	172.4	165.3	170.8	174.7
77.5°	146.5	144.2	141.0	145.7	152.0
80°	119.1	117.5	118.3	121.4	127.7
82.5°	91.7	88.5	90.9	97.1	101.1
85°	61.9	59.5	61.1	67.4	68.2
87.5°	29.0	29.0	28.2	32.9	32.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)