

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: P290625

Luminaire Tested: **14GR-LD5-32-F1-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290625
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-5500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3400.0 lumens
Efficiency: N/A
Efficacy: 128.7 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

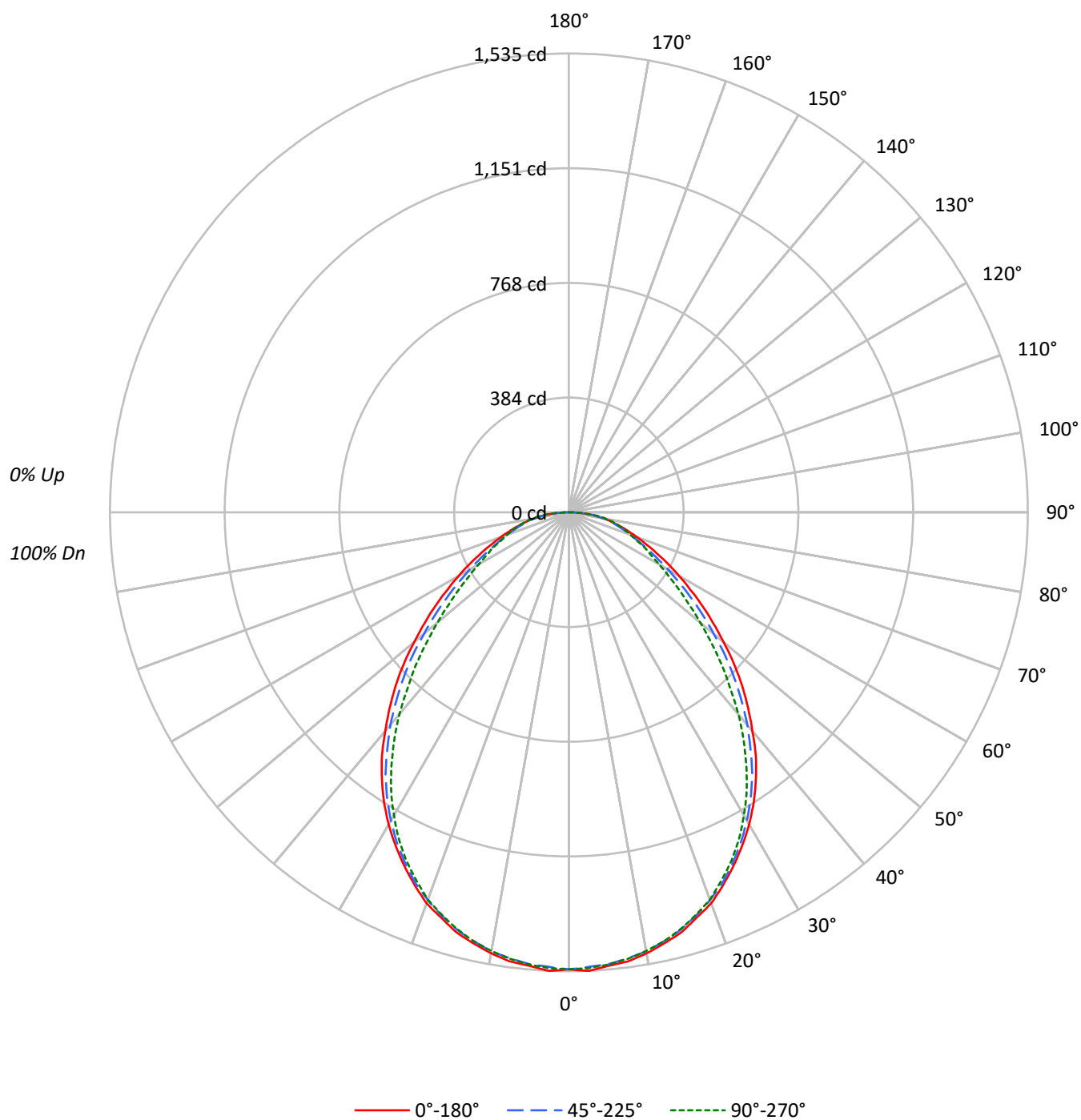
Input Watts (W): 26.412
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4115	4115	4115
5°	4113	4099	4101
10°	4093	4074	4072
15°	4051	4028	4021
20°	3986	3952	3948
25°	3871	3846	3818
30°	3746	3700	3637
35°	3582	3513	3397
40°	3354	3261	3099
45°	3114	2975	2758
50°	2825	2649	2401
55°	2556	2340	2099
60°	2294	2051	1871
65°	2059	1831	1791
70°	1901	1705	1723
75°	1815	1709	1807
80°	1836	1824	1968
85°	1902	1877	2093



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.4	4.2
10°-20°	408.1	12.0
20°-30°	596.0	17.5
30°-40°	664.1	19.5
40°-50°	598.3	17.6
50°-60°	447.2	13.2
60°-70°	295.0	8.7
70°-80°	180.1	5.3
80°-90°	66.8	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°	1148.4	33.8
0°-40°	1812.5	53.3
0°-60°	2858.0	84.1
0°-90°	3400.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3400.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1529	1529	1529	1529	1529	
5°	1523	1521	1517	1525	1518	145
15°	1454	1449	1446	1454	1443	409
25°	1304	1299	1295	1298	1286	600
35°	1090	1081	1069	1051	1034	680
45°	818	810	782	746	725	630
55°	545	536	499	458	447	488
65°	323	313	288	276	281	324
75°	175	172	164	170	174	186
85°	62	59	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°	1529.1	1529.1	1529.1	1529.1	1529.1
2.5°	1535.3	1528.3	1522.1	1531.4	1525.9
5°	1522.8	1521.3	1517.4	1525.2	1518.2
7.5°	1515.0	1509.6	1504.9	1514.3	1506.5
10°	1497.9	1494.8	1490.9	1498.7	1490.1
12.5°	1476.9	1473.7	1469.8	1479.2	1469.8
15°	1454.2	1448.8	1445.7	1454.2	1443.3
17.5°	1421.5	1419.2	1414.5	1423.1	1412.2
20°	1391.9	1383.3	1380.2	1386.4	1378.7
22.5°	1349.0	1342.8	1342.0	1345.9	1332.7
25°	1303.8	1299.2	1295.3	1297.6	1285.9
27.5°	1256.3	1250.1	1245.4	1244.6	1232.1
30°	1205.6	1197.8	1190.8	1184.6	1170.6
32.5°	1150.3	1141.0	1131.6	1121.5	1106.7
35°	1090.3	1080.9	1069.3	1050.6	1034.2
37.5°	1027.2	1016.3	997.6	975.7	959.4
40°	954.7	949.2	928.2	900.1	882.2
42.5°	886.9	880.7	854.2	823.0	798.8
45°	818.3	809.7	781.7	745.8	724.8
47.5°	748.2	739.6	708.4	664.0	645.3
50°	674.9	670.2	632.8	592.3	573.6
52.5°	607.9	602.4	564.2	523.7	506.6
55°	544.8	536.2	498.8	457.5	447.3
57.5°	481.6	472.3	437.2	402.1	395.1
60°	426.3	414.6	381.1	353.8	347.6
62.5°	374.1	360.8	332.8	311.7	308.6
65°	323.4	313.3	287.6	275.9	281.3
67.5°	279.8	269.7	250.9	246.3	244.7
70°	241.6	232.2	216.7	218.2	219.0
72.5°	206.5	201.1	189.4	193.3	196.4
75°	174.6	171.5	164.4	169.9	173.8
77.5°	145.7	143.4	140.3	145.0	151.2
80°	118.5	116.9	117.7	120.8	127.0
82.5°	91.2	88.1	90.4	96.6	100.5
85°	61.6	59.2	60.8	67.0	67.8
87.5°	28.8	28.8	28.1	32.7	32.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)