

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: P290626

Luminaire Tested: **14GR-LD5-32-F1-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290626
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-5700K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3409.0 lumens
Efficiency: N/A
Efficacy: 129.1 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

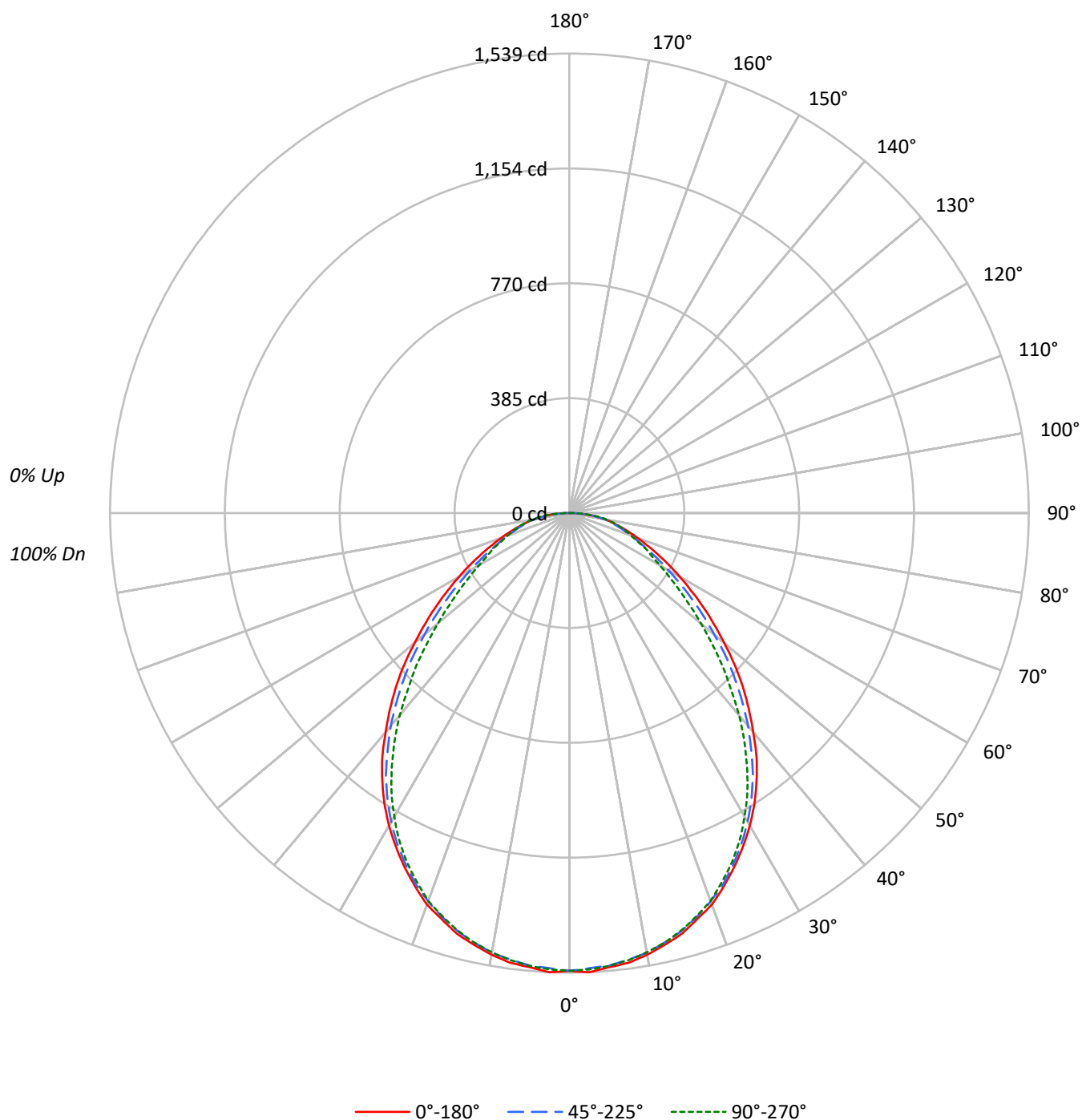
Input Watts (W): 26.412
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					10
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°	4126	4126	4126
5°	4125	4110	4112
10°	4104	4085	4082
15°	4062	4038	4032
20°	3997	3963	3958
25°	3882	3856	3828
30°	3756	3710	3647
35°	3591	3522	3406
40°	3362	3269	3107
45°	3123	2982	2766
50°	2833	2656	2408
55°	2563	2346	2104
60°	2300	2056	1876
65°	2065	1836	1796
70°	1906	1709	1728
75°	1820	1714	1812
80°	1841	1829	1974
85°	1905	1880	2100



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.7	4.2
10°-20°	409.2	12.0
20°-30°	597.5	17.5
30°-40°	665.8	19.5
40°-50°	599.9	17.6
50°-60°	448.4	13.2
60°-70°	295.8	8.7
70°-80°	180.6	5.3
80°-90°	67.0	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°	1151.4	33.8
0°-40°	1817.2	53.3
0°-60°	2865.6	84.1
0°-90°	3409.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3409.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1533	1533	1533	1533	1533	
5°	1527	1525	1521	1529	1522	145
15°	1458	1453	1450	1458	1447	410
25°	1307	1303	1299	1301	1289	602
35°	1093	1084	1072	1053	1037	682
45°	820	812	784	748	727	631
55°	546	538	500	459	448	489
65°	324	314	288	277	282	325
75°	175	172	165	170	174	187
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°	1533.1	1533.1	1533.1	1533.1	1533.1
2.5°	1539.4	1532.3	1526.1	1535.5	1530.0
5°	1526.9	1525.3	1521.4	1529.2	1522.2
7.5°	1519.0	1513.6	1508.9	1518.3	1510.5
10°	1501.9	1498.7	1494.8	1502.6	1494.0
12.5°	1480.8	1477.6	1473.7	1483.1	1473.7
15°	1458.1	1452.6	1449.5	1458.1	1447.2
17.5°	1425.3	1422.9	1418.2	1426.8	1415.9
20°	1395.6	1387.0	1383.9	1390.1	1382.3
22.5°	1352.6	1346.4	1345.6	1349.5	1336.2
25°	1307.3	1302.6	1298.7	1301.0	1289.3
27.5°	1259.6	1253.4	1248.7	1247.9	1235.4
30°	1208.8	1201.0	1194.0	1187.7	1173.7
32.5°	1153.4	1144.0	1134.6	1124.4	1109.6
35°	1093.2	1083.8	1072.1	1053.3	1036.9
37.5°	1029.9	1019.0	1000.2	978.3	961.9
40°	957.2	951.7	930.7	902.5	884.5
42.5°	889.2	883.0	856.4	825.2	800.9
45°	820.5	811.9	783.7	747.8	726.7
47.5°	750.1	741.6	710.3	665.8	647.0
50°	676.7	672.0	634.5	593.9	575.1
52.5°	609.5	604.0	565.7	525.1	507.9
55°	546.2	537.6	500.1	458.7	448.5
57.5°	482.9	473.5	438.4	403.2	396.2
60°	427.4	415.7	382.1	354.8	348.5
62.5°	375.1	361.8	333.7	312.6	309.4
65°	324.3	314.1	288.3	276.6	282.1
67.5°	280.5	270.4	251.6	246.9	245.4
70°	242.2	232.9	217.2	218.8	219.6
72.5°	207.1	201.6	189.9	193.8	196.9
75°	175.0	171.9	164.9	170.3	174.3
77.5°	146.1	143.8	140.7	145.3	151.6
80°	118.8	117.2	118.0	121.1	127.4
82.5°	91.4	88.3	90.6	96.9	100.8
85°	61.7	59.4	60.9	67.2	68.0
87.5°	28.9	28.9	28.1	32.8	32.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)