

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: P291128

Luminaire Tested: **14GR-LD5-40-A-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291128
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33314)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-40-A-UNV-L92765-W2A1-U-3000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3369.0 lumens
Efficiency: N/A
Efficacy: 100.9 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.21 / 1.26
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

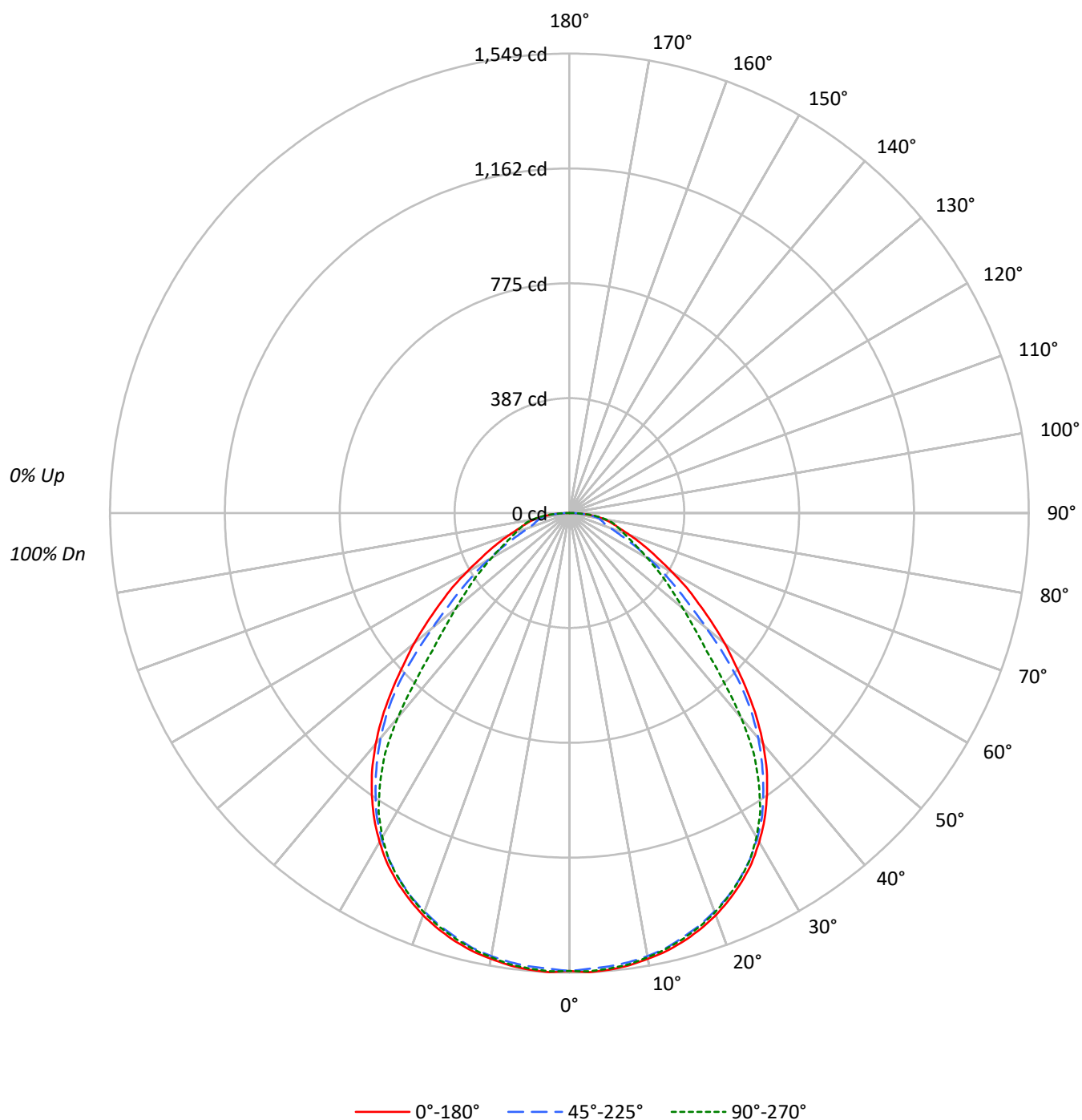
Input Watts (W): 33.387
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	106	102	98	107	103	100	97		99	96	94		95	93	91		92	90	88
2	101	94	88	83	99	92	86	82		88	84	80		85	81	78		82	79	76
3	93	84	76	71	91	82	75	70		79	74	69		77	72	68		74	70	66
4	86	75	67	61	84	74	67	61		72	65	60		69	64	59		67	62	58
5	80	68	60	54	78	67	59	53		65	58	53		63	57	52		61	56	52
6	74	62	54	48	72	61	53	47		59	52	47		58	51	47		56	51	46
7	69	57	48	43	67	56	48	43		54	47	42		53	47	42		52	46	42
8	65	52	44	38	63	51	44	38		50	43	38		49	43	38		48	42	38
9	61	48	40	35	59	47	40	35		46	39	35		45	39	35		44	39	34
10	57	44	37	32	56	44	37	32		43	36	32		42	36	32		41	36	31

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4154	4154	4154
5°	4175	4143	4164
10°	4169	4144	4154
15°	4161	4124	4137
20°	4132	4094	4105
25°	4077	4038	4040
30°	3978	3936	3920
35°	3815	3745	3660
40°	3570	3480	3166
45°	3225	3103	2474
50°	2860	2519	2093
55°	2496	2067	1847
60°	2165	1701	1630
65°	1898	1365	1505
70°	1693	1157	1515
75°	1651	1221	1693
80°	1832	1540	1940
85°	1908	1643	2272



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.5	4.3
10°-20°	419.6	12.5
20°-30°	627.7	18.6
30°-40°	708.6	21.0
40°-50°	601.1	17.8
50°-60°	406.7	12.1
60°-70°	242.8	7.2
70°-80°	152.0	4.5
80°-90°	64.0	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°	1193.8	35.4
0°-40°	1902.4	56.5
0°-60°	2910.2	86.4
0°-90°	3369.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3369.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1544	1544	1544	1544	1544	
5°	1545	1541	1534	1545	1542	147
15°	1494	1491	1480	1491	1485	421
25°	1373	1369	1360	1366	1361	631
35°	1161	1153	1140	1130	1114	723
45°	847	851	815	699	650	653
55°	532	507	440	394	394	479
65°	298	247	214	228	236	298
75°	159	142	117	155	163	171
85°	62	59	53	69	74	67
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1543.8	1543.8	1543.8	1543.8	1543.8
2.5°	1549.3	1544.6	1537.6	1547.0	1546.2
5°	1545.4	1540.7	1533.7	1544.6	1541.5
7.5°	1538.3	1534.4	1527.4	1537.6	1534.4
10°	1525.8	1522.7	1516.4	1525.0	1520.4
12.5°	1512.5	1510.2	1502.4	1510.2	1505.5
15°	1493.7	1490.6	1480.4	1490.6	1485.1
17.5°	1470.3	1466.4	1457.8	1466.4	1461.7
20°	1442.9	1438.2	1429.6	1438.2	1433.5
22.5°	1410.0	1406.1	1398.3	1406.1	1399.8
25°	1373.2	1368.6	1359.9	1366.2	1360.7
27.5°	1331.0	1324.7	1316.9	1321.6	1318.5
30°	1280.1	1272.3	1266.8	1266.8	1261.4
32.5°	1224.6	1219.1	1209.7	1204.2	1197.2
35°	1161.2	1153.4	1140.1	1129.9	1114.2
37.5°	1093.1	1083.7	1067.3	1041.5	1020.3
40°	1016.4	1004.7	990.6	939.8	901.4
42.5°	934.3	931.9	907.7	820.8	767.6
45°	847.4	850.6	815.3	698.8	650.2
47.5°	759.8	770.7	706.6	592.3	567.3
50°	683.1	687.0	601.7	514.1	500.0
52.5°	604.1	597.8	513.3	452.3	442.1
55°	532.1	507.0	440.5	394.4	393.6
57.5°	468.7	422.5	376.4	341.9	345.9
60°	402.2	350.5	316.1	297.3	302.8
62.5°	343.5	294.2	263.7	258.2	267.6
65°	298.1	247.3	214.4	228.5	236.3
67.5°	255.1	212.1	174.5	208.1	211.3
70°	215.2	183.9	147.1	191.7	192.5
72.5°	182.3	162.8	127.5	173.7	176.1
75°	158.8	141.6	117.4	154.9	162.8
77.5°	139.3	121.3	108.8	133.8	147.1
80°	118.2	97.8	99.4	111.9	125.2
82.5°	90.8	75.9	79.0	92.3	101.7
85°	61.8	58.7	53.2	68.9	73.6
87.5°	32.9	31.3	27.4	39.1	36.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)