

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: P291127

Luminaire Tested: **14GR-LD5-40-A-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291127
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-2700K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 90 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3240.0 lumens
Efficiency: N/A
Efficacy: 96.5 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

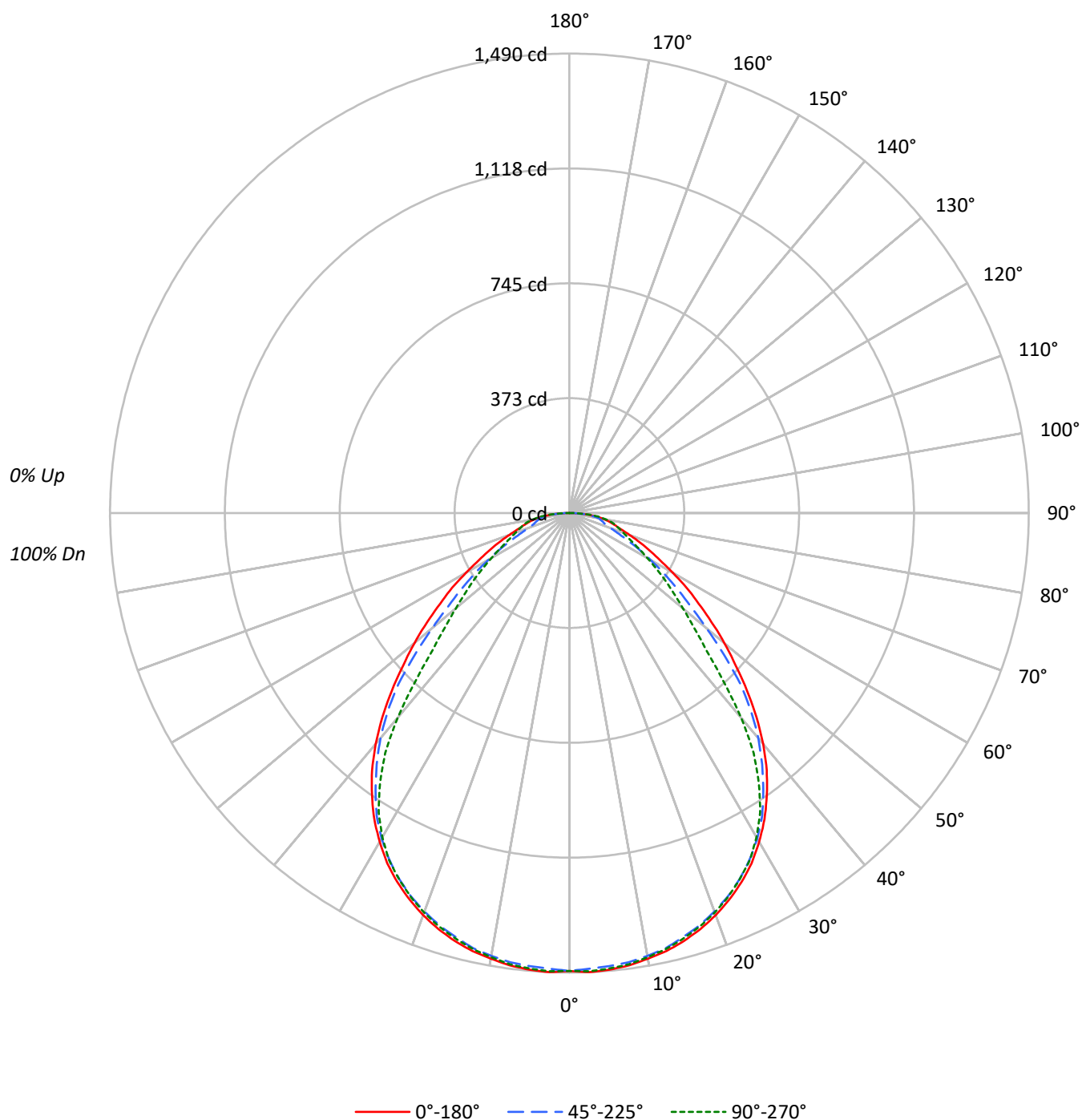
Input Watts (W): 33.573
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0		
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86		
2	101	94	88	83	99	92	86	82	88	84	80	85	81	78	82	79	76	74		
3	93	84	76	71	91	82	75	70	79	74	69	77	72	68	74	70	66	64		
4	86	75	67	61	84	74	67	61	72	65	60	69	64	59	67	62	58	56		
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50		
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46	44		
7	69	57	48	43	67	56	48	43	54	47	42	53	47	42	52	46	42	40		
8	65	52	44	38	63	51	44	38	50	43	38	49	43	38	48	42	38	36		
9	61	48	40	35	59	47	40	35	46	39	35	45	39	35	44	39	34	33		
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	36	31	30		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3995	3995	3995
5°	4015	3984	4005
10°	4010	3985	3995
15°	4002	3967	3979
20°	3974	3937	3948
25°	3921	3883	3885
30°	3825	3786	3769
35°	3668	3602	3520
40°	3434	3347	3045
45°	3102	2984	2380
50°	2750	2423	2013
55°	2401	1988	1776
60°	2082	1636	1567
65°	1826	1313	1447
70°	1628	1113	1456
75°	1589	1174	1627
80°	1760	1481	1866
85°	1834	1581	2183



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.9	4.3
10°-20°	403.5	12.5
20°-30°	603.7	18.6
30°-40°	681.4	21.0
40°-50°	578.1	17.8
50°-60°	391.2	12.1
60°-70°	233.5	7.2
70°-80°	146.2	4.5
80°-90°	61.5	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°	1148.1	35.4
0°-40°	1829.5	56.5
0°-60°	2798.8	86.4
0°-90°	3240.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3240.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1485	1485	1485	1485	1485	
5°	1486	1482	1475	1486	1482	141
15°	1437	1434	1424	1434	1428	405
25°	1321	1316	1308	1314	1309	607
35°	1117	1109	1096	1087	1072	696
45°	815	818	784	672	625	628
55°	512	488	424	379	378	461
65°	287	238	206	220	227	287
75°	153	136	113	149	156	164
85°	59	56	51	66	71	64
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1484.7	1484.7	1484.7	1484.7	1484.7
2.5°	1490.0	1485.5	1478.7	1487.7	1487.0
5°	1486.2	1481.7	1474.9	1485.5	1482.5
7.5°	1479.4	1475.7	1468.9	1478.7	1475.7
10°	1467.4	1464.4	1458.4	1466.7	1462.1
12.5°	1454.6	1452.4	1444.8	1452.4	1447.8
15°	1436.6	1433.5	1423.8	1433.5	1428.3
17.5°	1414.0	1410.2	1401.9	1410.2	1405.7
20°	1387.6	1383.1	1374.8	1383.1	1378.6
22.5°	1356.0	1352.3	1344.7	1352.3	1346.2
25°	1320.7	1316.1	1307.9	1313.9	1308.6
27.5°	1280.0	1274.0	1266.5	1271.0	1268.0
30°	1231.1	1223.6	1218.3	1218.3	1213.1
32.5°	1177.7	1172.4	1163.4	1158.1	1151.3
35°	1116.7	1109.2	1096.4	1086.6	1071.6
37.5°	1051.3	1042.2	1026.4	1001.6	981.3
40°	977.5	966.2	952.7	903.8	866.9
42.5°	898.5	896.2	872.9	789.4	738.2
45°	815.0	818.0	784.1	672.0	625.3
47.5°	730.7	741.2	679.5	569.7	545.6
50°	656.9	660.7	578.7	494.4	480.9
52.5°	580.9	574.9	493.6	435.0	425.2
55°	511.7	487.6	423.7	379.3	378.5
57.5°	450.8	406.4	362.0	328.8	332.6
60°	386.8	337.1	304.0	286.0	291.2
62.5°	330.4	282.9	253.6	248.3	257.4
65°	286.7	237.8	206.2	219.7	227.3
67.5°	245.3	203.9	167.8	200.2	203.2
70°	206.9	176.8	141.5	184.4	185.1
72.5°	175.3	156.5	122.7	167.1	169.3
75°	152.8	136.2	112.9	149.0	156.5
77.5°	133.9	116.6	104.6	128.7	141.5
80°	113.6	94.1	95.6	107.6	120.4
82.5°	87.3	73.0	76.0	88.8	97.8
85°	59.4	56.4	51.2	66.2	70.7
87.5°	31.6	30.1	26.3	37.6	35.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)