

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: P291324

Luminaire Tested: **14GR-LD5-40-A125-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291324
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33315)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-40-A125-UNV-L92765-W2A1-U-3000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3372.0 lumens
Efficiency: N/A
Efficacy: 101.0 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

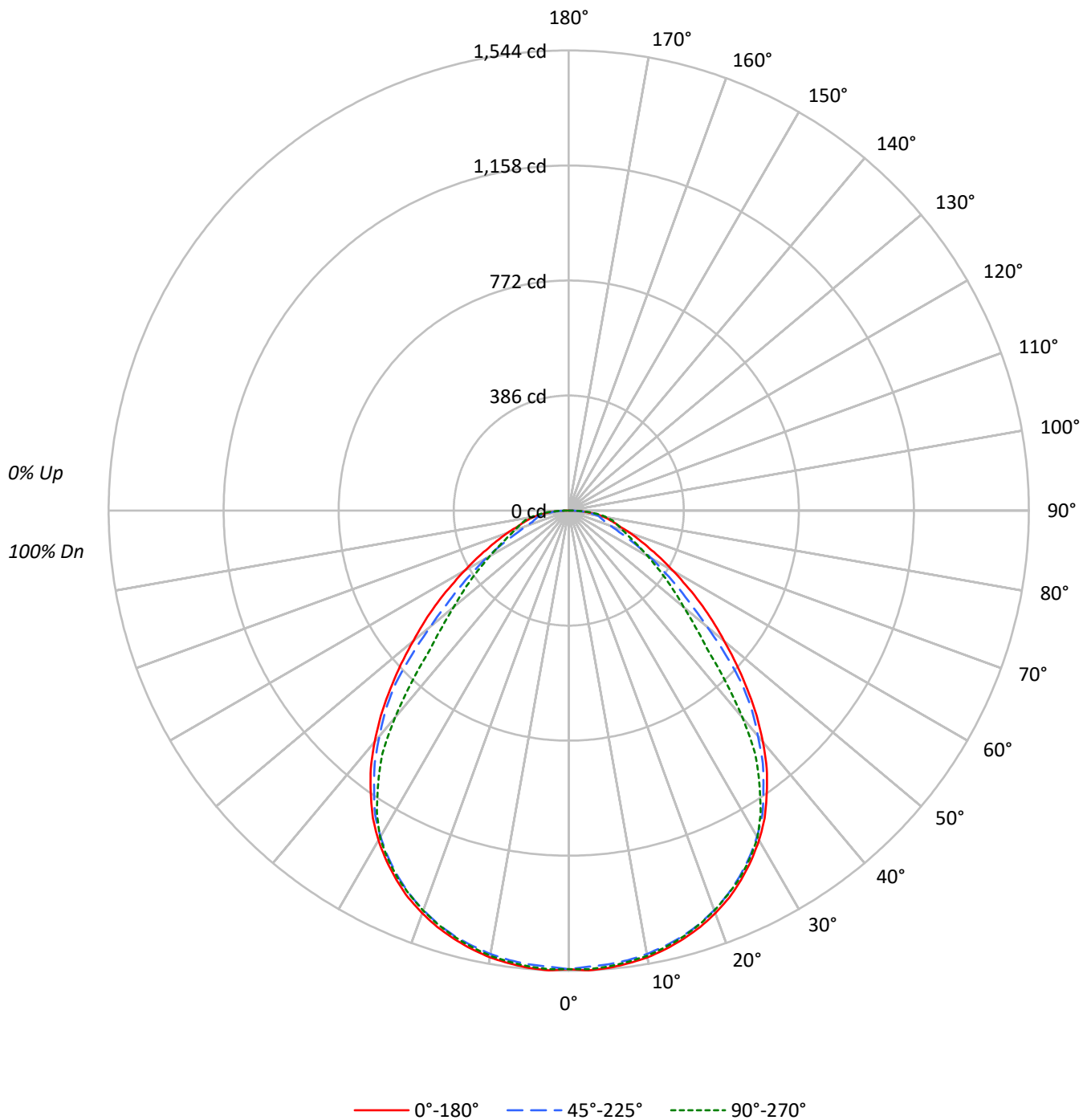
Input Watts (W): 33.387
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	82	99	92	86	82	88	84	80	85	81	78	82	79	76	74			
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66	64			
4	86	75	67	61	84	74	66	61	71	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	56	48	43	67	56	48	42	54	47	42	53	47	42	52	46	42	40			
8	65	52	44	38	63	51	44	38	50	43	38	49	42	38	48	42	38	36			
9	60	48	40	35	59	47	40	35	46	39	35	45	39	34	44	38	34	33			
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	35	31	30			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4141	4141	4141
5°	4161	4129	4148
10°	4160	4128	4145
15°	4145	4119	4126
20°	4117	4086	4090
25°	4062	4025	4037
30°	3970	3926	3935
35°	3806	3742	3662
40°	3559	3471	3185
45°	3221	3129	2498
50°	2849	2532	2106
55°	2521	2081	1857
60°	2176	1722	1646
65°	1893	1370	1514
70°	1711	1175	1514
75°	1643	1228	1692
80°	1830	1564	1976
85°	1933	1667	2368



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.0	4.3
10°-20°	418.3	12.4
20°-30°	626.0	18.6
30°-40°	708.6	21.0
40°-50°	603.6	17.9
50°-60°	408.7	12.1
60°-70°	244.0	7.2
70°-80°	152.4	4.5
80°-90°	64.4	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°	1190.2	35.3
0°-40°	1898.9	56.3
0°-60°	2911.1	86.3
0°-90°	3372.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3372.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1539	1539	1539	1539	1539	
5°	1540	1536	1529	1538	1536	146
15°	1488	1482	1478	1488	1481	420
25°	1368	1364	1356	1362	1360	629
35°	1159	1152	1139	1127	1115	722
45°	846	849	822	701	656	653
55°	537	508	444	396	396	481
65°	297	248	215	230	238	300
75°	158	142	118	155	163	171
85°	63	58	54	68	77	67
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1538.7	1538.7	1538.7	1538.7	1538.7
2.5°	1544.2	1540.3	1531.7	1541.9	1540.3
5°	1540.3	1536.4	1528.6	1538.0	1535.6
7.5°	1532.5	1528.6	1521.5	1530.9	1527.0
10°	1522.3	1517.6	1510.6	1520.8	1516.8
12.5°	1506.7	1502.0	1495.7	1505.9	1500.4
15°	1487.9	1482.4	1478.5	1487.9	1480.9
17.5°	1465.2	1460.5	1455.0	1464.4	1456.6
20°	1437.8	1433.9	1426.9	1432.4	1428.4
22.5°	1406.5	1401.1	1394.0	1400.3	1394.8
25°	1368.2	1364.3	1355.7	1362.0	1359.6
27.5°	1324.4	1322.1	1311.9	1319.7	1315.8
30°	1277.5	1271.2	1263.4	1265.7	1266.5
32.5°	1223.5	1215.7	1209.4	1203.9	1198.5
35°	1158.6	1151.5	1139.0	1127.3	1114.8
37.5°	1091.3	1081.9	1069.4	1043.6	1027.9
40°	1013.1	1008.4	988.0	952.0	906.7
42.5°	933.3	928.6	910.6	830.0	780.7
45°	846.4	848.8	822.2	700.9	656.3
47.5°	763.5	769.8	711.9	598.4	575.0
50°	680.6	687.6	604.7	517.1	503.0
52.5°	607.8	602.4	515.5	453.7	447.5
55°	537.4	507.7	443.6	395.8	395.8
57.5°	465.5	423.2	377.1	346.6	346.6
60°	404.4	352.0	320.0	299.6	305.9
62.5°	348.1	292.6	265.2	261.3	269.1
65°	297.3	248.0	215.1	230.0	237.8
67.5°	255.8	212.0	176.8	208.1	212.8
70°	217.5	184.6	149.4	191.7	192.4
72.5°	182.3	162.7	128.3	173.7	176.8
75°	158.0	141.6	118.1	154.9	162.7
77.5°	138.5	121.3	108.7	133.8	148.6
80°	118.1	99.3	100.9	112.6	127.5
82.5°	90.7	76.7	79.8	92.3	104.0
85°	62.6	57.9	54.0	68.1	76.7
87.5°	33.6	31.3	27.4	38.3	39.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)