

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: P291269

Luminaire Tested: **14GR-LD5-40-A125-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291269
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-L93050-W2A1-U-3500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3518.0 lumens
Efficiency: N/A
Efficacy: 102.5 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

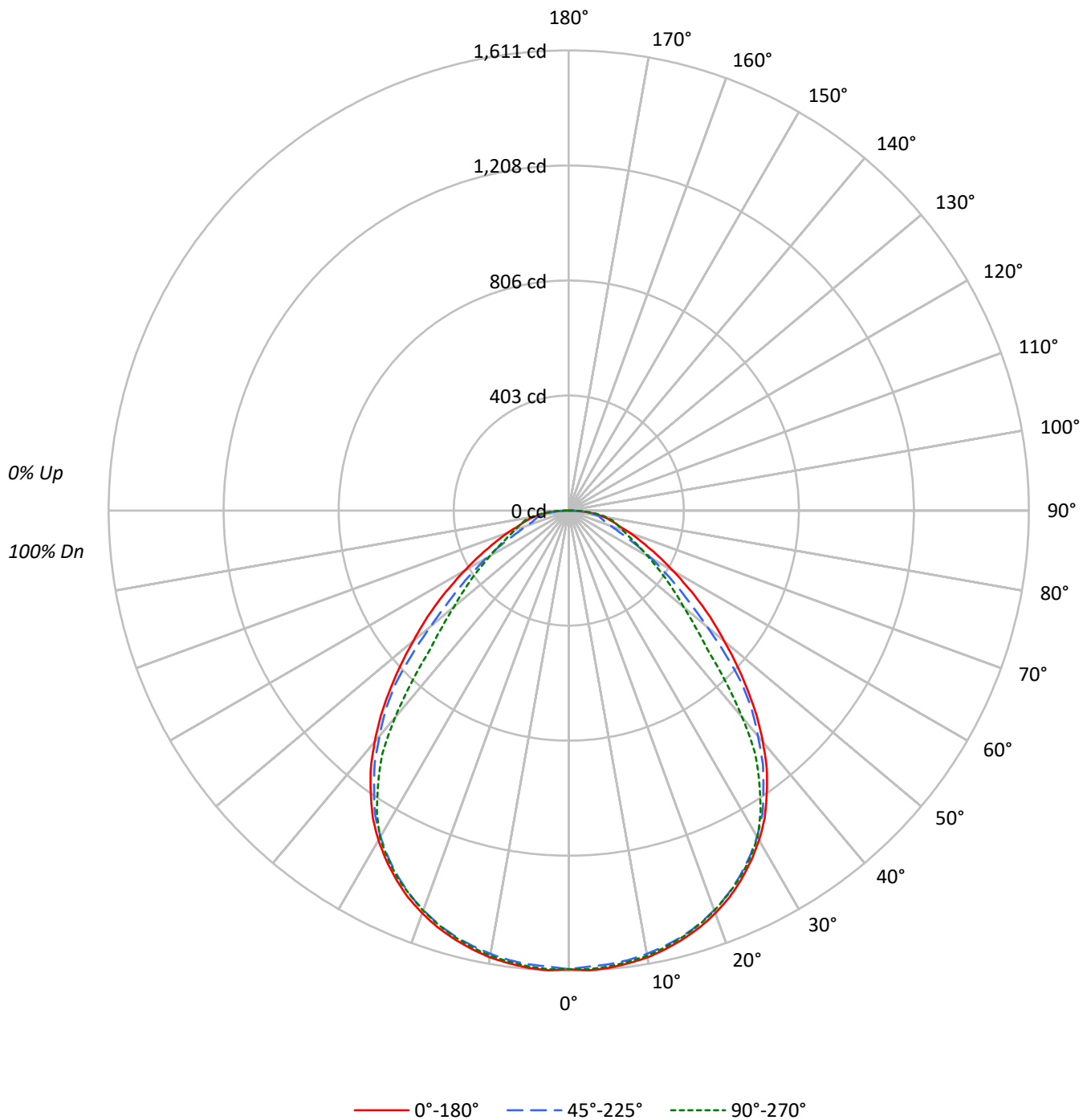
Input Watts (W): 34.317
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4320	4320	4320
5°	4341	4308	4328
10°	4340	4306	4324
15°	4325	4297	4304
20°	4296	4263	4268
25°	4238	4200	4212
30°	4141	4096	4106
35°	3971	3904	3821
40°	3713	3621	3323
45°	3361	3264	2606
50°	2973	2641	2197
55°	2631	2171	1938
60°	2271	1796	1717
65°	1975	1429	1580
70°	1785	1227	1580
75°	1714	1281	1765
80°	1909	1632	2061
85°	2016	1738	2470



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.3	4.3
10°-20°	436.4	12.4
20°-30°	653.1	18.6
30°-40°	739.3	21.0
40°-50°	629.7	17.9
50°-60°	426.4	12.1
60°-70°	254.6	7.2
70°-80°	159.0	4.5
80°-90°	67.2	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°	1241.8	35.3
0°-40°	1981.1	56.3
0°-60°	3037.2	86.3
0°-90°	3518.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3518.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1605	1605	1605	1605	1605	
5°	1607	1603	1595	1605	1602	153
15°	1552	1547	1542	1552	1545	438
25°	1428	1423	1414	1421	1418	656
35°	1209	1201	1188	1176	1163	753
45°	883	886	858	731	685	681
55°	561	530	463	413	413	501
65°	310	259	224	240	248	313
75°	165	148	123	162	170	178
85°	65	60	56	71	80	70
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1605.4	1605.4	1605.4	1605.4	1605.4
2.5°	1611.1	1607.0	1598.0	1608.6	1607.0
5°	1607.0	1602.9	1594.8	1604.6	1602.1
7.5°	1598.8	1594.8	1587.4	1597.2	1593.1
10°	1588.2	1583.3	1576.0	1586.6	1582.5
12.5°	1571.9	1567.0	1560.5	1571.1	1565.4
15°	1552.3	1546.6	1542.5	1552.3	1545.0
17.5°	1528.7	1523.8	1518.0	1527.8	1519.7
20°	1500.1	1496.0	1488.7	1494.4	1490.3
22.5°	1467.4	1461.7	1454.4	1460.9	1455.2
25°	1427.5	1423.4	1414.4	1420.9	1418.5
27.5°	1381.7	1379.3	1368.7	1376.9	1372.8
30°	1332.8	1326.2	1318.1	1320.5	1321.4
32.5°	1276.5	1268.3	1261.8	1256.1	1250.3
35°	1208.7	1201.4	1188.3	1176.1	1163.0
37.5°	1138.5	1128.7	1115.7	1088.7	1072.4
40°	1056.9	1052.0	1030.8	993.3	945.9
42.5°	973.7	968.8	950.0	865.9	814.5
45°	883.1	885.5	857.8	731.3	684.8
47.5°	796.6	803.1	742.7	624.4	599.9
50°	710.1	717.4	630.9	539.5	524.8
52.5°	634.2	628.4	537.8	473.4	466.8
55°	560.7	529.7	462.8	413.0	413.0
57.5°	485.6	441.5	393.4	361.6	361.6
60°	422.0	367.3	333.8	312.6	319.1
62.5°	363.2	305.2	276.7	272.6	280.8
65°	310.1	258.7	224.4	239.9	248.1
67.5°	266.9	221.2	184.5	217.1	222.0
70°	226.9	192.6	155.9	200.0	200.8
72.5°	190.2	169.8	133.8	181.2	184.5
75°	164.9	147.7	123.2	161.6	169.8
77.5°	144.5	126.5	113.4	139.6	155.1
80°	123.2	103.7	105.3	117.5	133.0
82.5°	94.7	80.0	83.2	96.3	108.5
85°	65.3	60.4	56.3	71.0	80.0
87.5°	35.1	32.6	28.6	40.0	40.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)