

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: P234068

Luminaire Tested: **14GR-LD5-60-A125-UNV-L950-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P234068
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33315)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/12/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-60-A125-UNV-L950-CD1-U
Description: METALUX 1X4 GRLED TROFFER
WITH A125 LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6101.1 lumens
Efficiency: N/A
Efficacy: 101.9 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.21 / 1.26
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

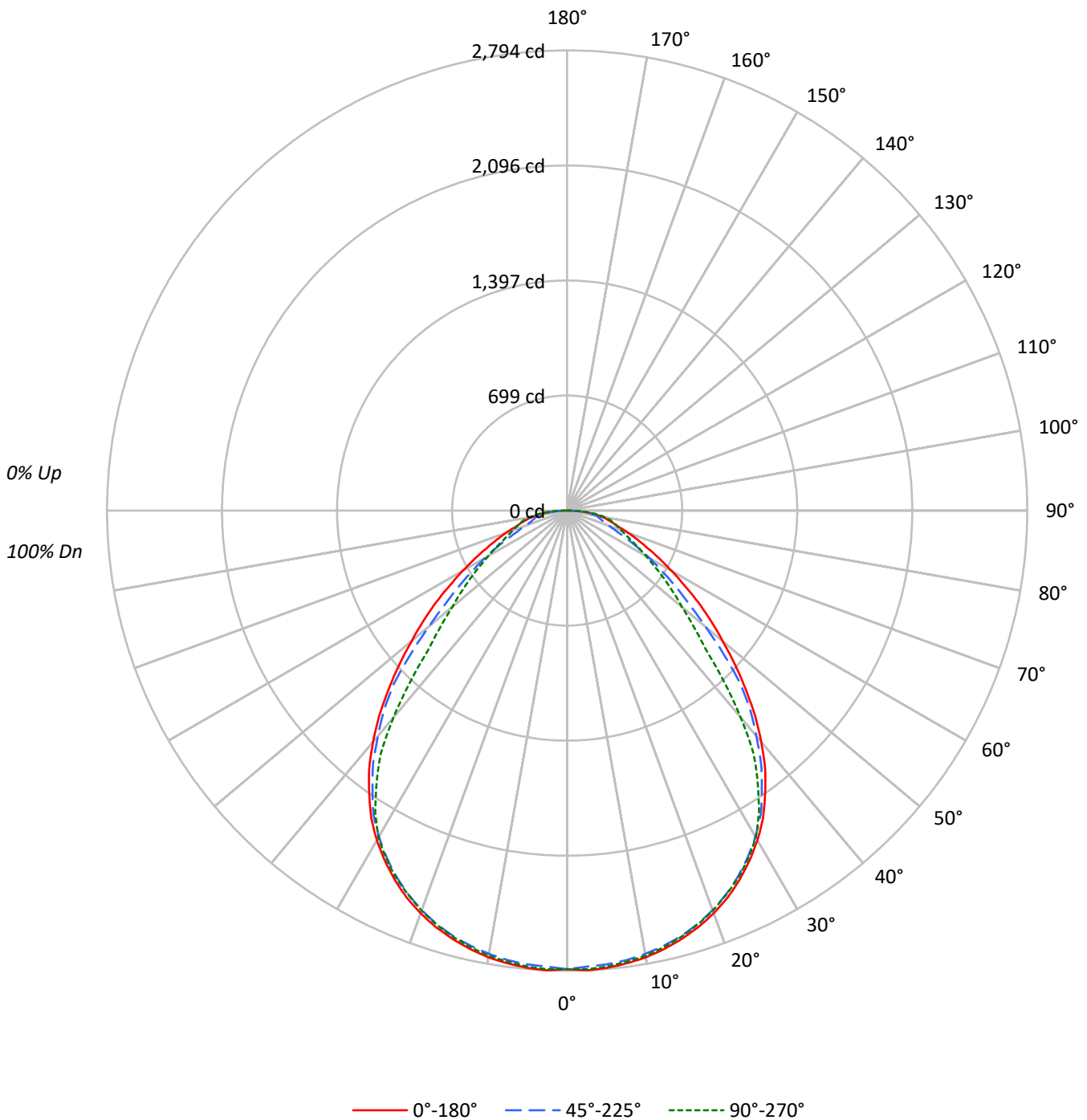
Input Watts (W): 59.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10	50	30	10	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					100			
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86					86			
2	101	94	88	82	99	92	86	82	88	84	80	85	81	78	82	79	76	74					74			
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66	64					64			
4	86	75	67	61	84	74	66	61	71	65	60	69	64	59	67	62	58	56					56			
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50					50			
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46	44					44			
7	69	56	48	43	67	56	48	42	54	47	42	53	47	42	52	46	42	40					40			
8	65	52	44	38	63	51	44	38	50	43	38	49	42	38	48	42	38	36					36			
9	60	48	40	35	59	47	40	35	46	39	35	45	39	34	44	38	34	33					33			
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	35	31	30					30			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9381	9381	9381
5°	9427	9355	9398
10°	9424	9352	9390
15°	9391	9332	9347
20°	9329	9258	9268
25°	9204	9120	9146
30°	8993	8894	8916
35°	8623	8477	8297
40°	8062	7863	7216
45°	7298	7089	5659
50°	6455	5735	4771
55°	5713	4714	4207
60°	4931	3901	3730
65°	4289	3103	3430
70°	3877	2664	3430
75°	3722	2783	3833
80°	4149	3541	4477
85°	4376	3773	5362



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	264.1	4.3
10°-20°	756.8	12.4
20°-30°	1132.6	18.6
30°-40°	1282.1	21.0
40°-50°	1092.1	17.9
50°-60°	739.4	12.1
60°-70°	441.5	7.2
70°-80°	275.8	4.5
80°-90°	116.6	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°	2153.5	35.3
0°-40°	3435.7	56.3
0°-60°	5267.2	86.3
0°-90°	6101.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6101.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2784	2784	2784	2784	2784	
5°	2787	2780	2766	2783	2778	265
15°	2692	2682	2675	2692	2679	759
25°	2476	2468	2453	2464	2460	1139
35°	2096	2084	2061	2040	2017	1307
45°	1531	1536	1488	1268	1188	1181
55°	972	919	802	716	716	869
65°	538	449	389	416	430	542
75°	286	256	214	280	294	309
85°	113	105	98	123	139	121
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2784.1	2784.1	2784.1	2784.1	2784.1
2.5°	2794.1	2787.0	2771.4	2789.8	2787.0
5°	2787.0	2779.9	2765.8	2782.7	2778.5
7.5°	2772.8	2765.8	2753.0	2769.9	2762.9
10°	2754.4	2745.9	2733.2	2751.6	2744.5
12.5°	2726.1	2717.6	2706.2	2724.6	2714.8
15°	2692.1	2682.2	2675.1	2692.1	2679.4
17.5°	2651.1	2642.5	2632.6	2649.6	2635.5
20°	2601.5	2594.5	2581.8	2591.6	2584.6
22.5°	2544.9	2535.0	2522.2	2533.6	2523.7
25°	2475.6	2468.5	2452.9	2464.3	2460.0
27.5°	2396.3	2392.0	2373.6	2387.8	2380.7
30°	2311.4	2300.0	2285.9	2290.1	2291.6
32.5°	2213.7	2199.6	2188.3	2178.4	2168.4
35°	2096.2	2083.5	2060.9	2039.6	2016.9
37.5°	1974.5	1957.5	1934.8	1888.2	1859.9
40°	1832.9	1824.5	1787.7	1722.5	1640.5
42.5°	1688.6	1680.1	1647.6	1501.8	1412.6
45°	1531.4	1535.7	1487.6	1268.2	1187.6
47.5°	1381.5	1392.8	1288.0	1082.8	1040.3
50°	1231.4	1244.2	1094.1	935.6	910.1
52.5°	1099.7	1089.9	932.8	820.9	809.6
55°	972.4	918.6	802.5	716.2	716.2
57.5°	842.2	765.8	682.2	627.0	627.0
60°	731.7	636.9	578.9	542.1	553.5
62.5°	629.9	529.3	479.8	472.7	486.9
65°	537.9	448.7	389.2	416.1	430.2
67.5°	462.8	383.6	319.9	376.5	385.0
70°	393.5	334.1	270.4	346.8	348.2
72.5°	329.8	294.4	232.1	314.2	319.9
75°	285.9	256.2	213.8	280.3	294.4
77.5°	250.5	219.4	196.7	242.1	268.9
80°	213.8	179.7	182.5	203.8	230.7
82.5°	164.2	138.7	144.4	167.0	188.3
85°	113.2	104.7	97.6	123.1	138.7
87.5°	60.9	56.6	49.5	69.3	70.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)