

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: P225862

Luminaire Tested: **14GR-LD5-36-A125-UNV-L935-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P225862
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-LD5-36-A125-UNV-L935-CD1-U
Description: METALUX GR 1X4 LED TROFFER WITH A125 LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3156.9 lumens
Efficiency: N/A
Efficacy: 90.2 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

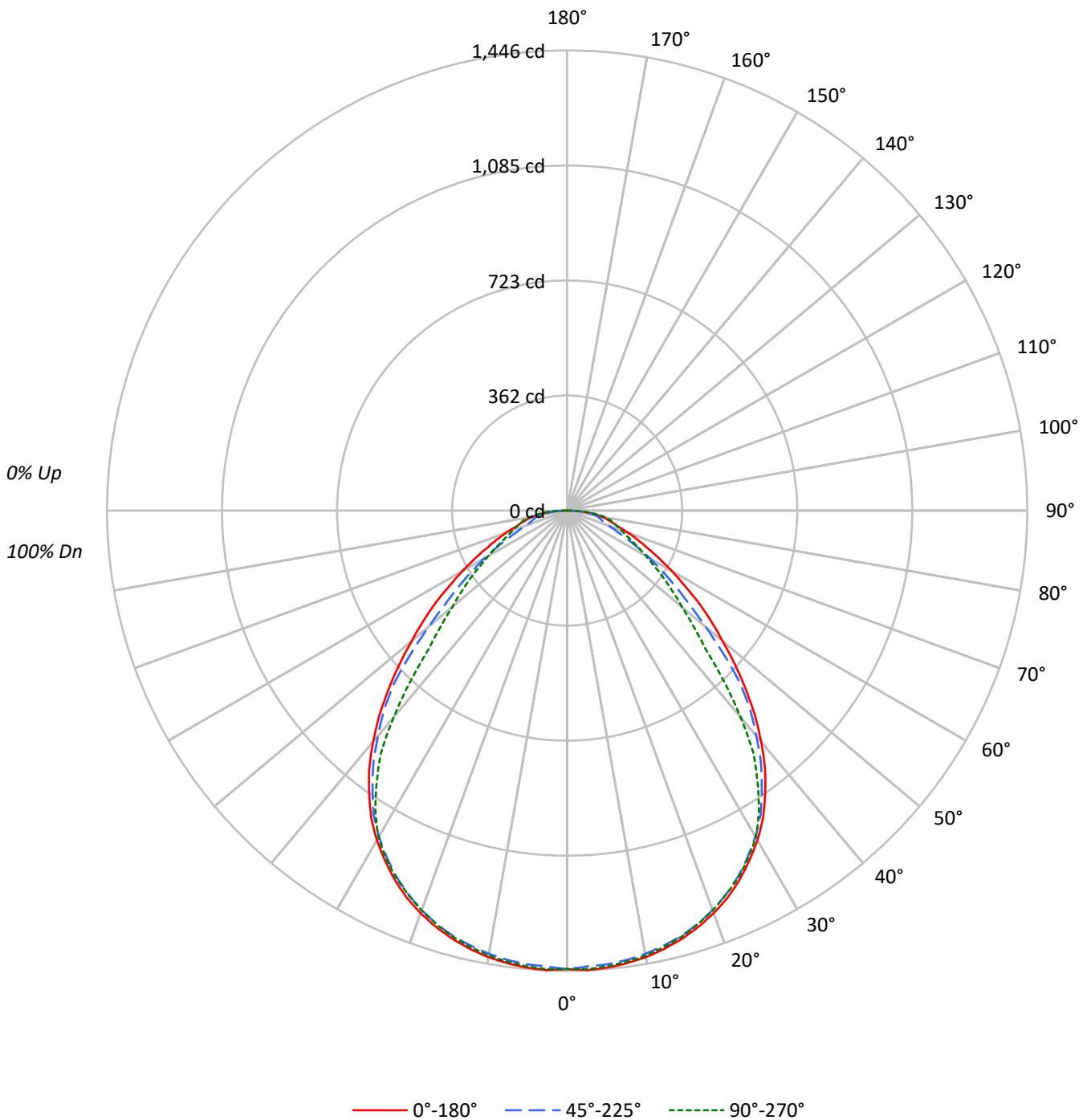
Input Watts (W): 35
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4854	4854	4854
5°	4877	4841	4863
10°	4876	4839	4859
15°	4859	4829	4836
20°	4827	4790	4795
25°	4763	4719	4733
30°	4653	4602	4614
35°	4462	4386	4293
40°	4172	4069	3734
45°	3776	3668	2928
50°	3340	2968	2469
55°	2956	2439	2177
60°	2552	2018	1930
65°	2219	1606	1775
70°	2006	1378	1775
75°	1926	1440	1983
80°	2146	1832	2315
85°	2266	1956	2772



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.6	4.3
10°-20°	391.6	12.4
20°-30°	586.1	18.6
30°-40°	663.4	21.0
40°-50°	565.1	17.9
50°-60°	382.6	12.1
60°-70°	228.4	7.2
70°-80°	142.7	4.5
80°-90°	60.3	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°	1114.3	35.3
0°-40°	1777.7	56.3
0°-60°	2725.4	86.3
0°-90°	3156.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3156.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1441	1441	1441	1441	1441	
5°	1442	1438	1431	1440	1438	137
15°	1393	1388	1384	1393	1386	393
25°	1281	1277	1269	1275	1273	589
35°	1085	1078	1066	1055	1044	676
45°	792	795	770	656	614	611
55°	503	475	415	371	371	450
65°	278	232	201	215	223	281
75°	148	133	111	145	152	160
85°	59	54	51	64	72	63
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1440.6	1440.6	1440.6	1440.6	1440.6
2.5°	1445.7	1442.0	1434.0	1443.6	1442.0
5°	1442.0	1438.4	1431.1	1439.9	1437.7
7.5°	1434.7	1431.1	1424.5	1433.3	1429.6
10°	1425.2	1420.9	1414.2	1423.8	1420.1
12.5°	1410.6	1406.2	1400.3	1409.8	1404.7
15°	1393.0	1387.9	1384.2	1393.0	1386.4
17.5°	1371.7	1367.4	1362.2	1371.0	1363.7
20°	1346.1	1342.5	1335.9	1341.0	1337.3
22.5°	1316.8	1311.7	1305.1	1311.0	1305.9
25°	1281.0	1277.3	1269.2	1275.1	1272.9
27.5°	1239.9	1237.7	1228.2	1235.6	1231.9
30°	1196.0	1190.1	1182.8	1185.0	1185.8
32.5°	1145.5	1138.1	1132.3	1127.1	1122.0
35°	1084.7	1078.1	1066.3	1055.4	1043.6
37.5°	1021.7	1012.9	1001.1	977.0	962.4
40°	948.4	944.0	925.0	891.3	848.8
42.5°	873.7	869.3	852.5	777.1	730.9
45°	792.5	794.7	769.8	656.2	614.5
47.5°	714.8	720.6	666.5	560.2	538.3
50°	637.2	643.8	566.1	484.1	470.9
52.5°	569.1	564.0	482.6	424.7	418.9
55°	503.1	475.3	415.2	370.6	370.6
57.5°	435.8	396.2	353.0	324.4	324.4
60°	378.7	329.5	299.5	280.5	286.4
62.5°	325.9	273.9	248.3	244.6	251.9
65°	278.3	232.1	201.4	215.3	222.6
67.5°	239.5	198.5	165.5	194.8	199.2
70°	203.6	172.8	139.9	179.4	180.2
72.5°	170.7	152.3	120.1	162.6	165.5
75°	147.9	132.6	110.6	145.0	152.3
77.5°	129.6	113.6	101.8	125.2	139.1
80°	110.6	93.0	94.4	105.5	119.3
82.5°	84.9	71.7	74.7	86.4	97.4
85°	58.6	54.2	50.6	63.8	71.7
87.5°	31.4	29.3	25.7	35.9	36.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)