

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: P234071

Luminaire Tested: **14GR-LD5-50-A125-UNV-L940-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P234071
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-LD5-50-A125-UNV-L940-CD1-U
Description: METALUX 1X4 GRLED TROFFER
WITH A125 LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4307.7 lumens
Efficiency: N/A
Efficacy: 95.5 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

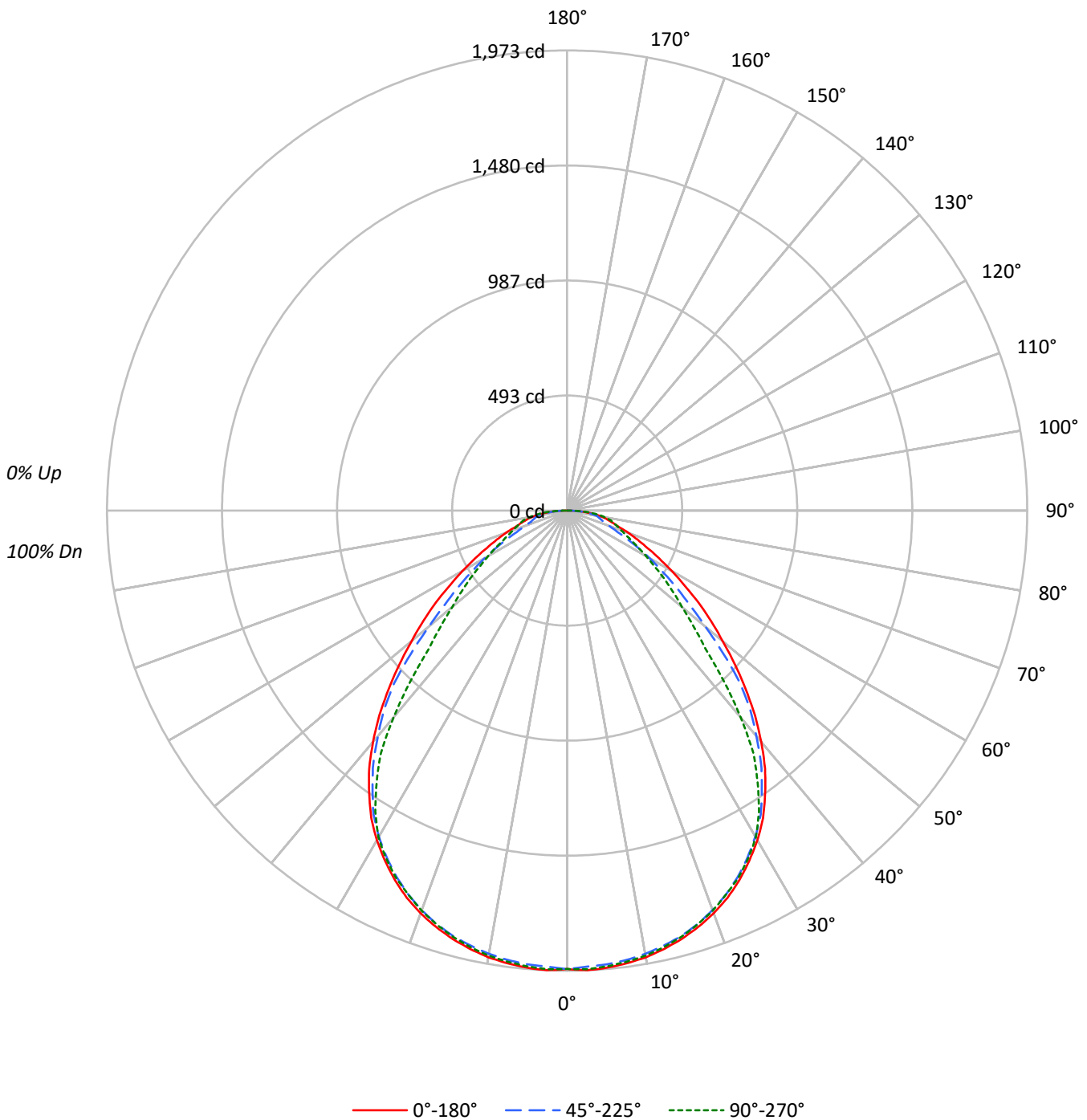
Input Watts (W): 45.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	6624	6624	6624
5°	6656	6605	6635
10°	6654	6603	6630
15°	6631	6589	6599
20°	6587	6537	6543
25°	6499	6439	6458
30°	6349	6280	6295
35°	6088	5986	5858
40°	5693	5552	5095
45°	5153	5005	3996
50°	4558	4050	3369
55°	4033	3329	2971
60°	3482	2755	2634
65°	3028	2192	2422
70°	2738	1881	2423
75°	2627	1965	2707
80°	2928	2501	3161
85°	3093	2668	3789



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.5	4.3
10°-20°	534.4	12.4
20°-30°	799.7	18.6
30°-40°	905.3	21.0
40°-50°	771.1	17.9
50°-60°	522.1	12.1
60°-70°	311.7	7.2
70°-80°	194.7	4.5
80°-90°	82.3	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°	1520.5	35.3
0°-40°	2425.8	56.3
0°-60°	3719.0	86.3
0°-90°	4307.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4307.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1966	1966	1966	1966	1966	
5°	1968	1963	1953	1965	1962	187
15°	1901	1894	1889	1901	1892	536
25°	1748	1743	1732	1740	1737	804
35°	1480	1471	1455	1440	1424	923
45°	1081	1084	1050	895	838	834
55°	686	649	567	506	506	614
65°	380	317	275	294	304	383
75°	202	181	151	198	208	218
85°	80	74	69	87	98	86
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1965.8	1965.8	1965.8	1965.8	1965.8
2.5°	1972.8	1967.8	1956.8	1969.7	1967.8
5°	1967.8	1962.8	1952.8	1964.8	1961.7
7.5°	1957.8	1952.8	1943.8	1955.7	1950.7
10°	1944.8	1938.8	1929.8	1942.7	1937.8
12.5°	1924.8	1918.7	1910.8	1923.8	1916.8
15°	1900.8	1893.8	1888.8	1900.8	1891.8
17.5°	1871.8	1865.9	1858.8	1870.8	1860.8
20°	1836.9	1831.8	1822.9	1829.8	1824.8
22.5°	1796.9	1789.8	1780.9	1788.9	1781.8
25°	1747.9	1742.9	1731.9	1739.9	1736.9
27.5°	1692.0	1689.0	1676.0	1685.9	1681.0
30°	1631.9	1623.9	1614.0	1617.0	1618.0
32.5°	1563.0	1553.0	1545.0	1538.0	1531.1
35°	1480.1	1471.0	1455.1	1440.1	1424.1
37.5°	1394.1	1382.1	1366.1	1333.2	1313.1
40°	1294.2	1288.2	1262.2	1216.2	1158.2
42.5°	1192.2	1186.3	1163.2	1060.3	997.3
45°	1081.3	1084.3	1050.3	895.4	838.5
47.5°	975.4	983.4	909.4	764.5	734.5
50°	869.5	878.4	772.5	660.6	642.6
52.5°	776.5	769.5	658.6	579.6	571.6
55°	686.5	648.6	566.7	505.7	505.7
57.5°	594.6	540.7	481.7	442.7	442.7
60°	516.7	449.7	408.8	382.8	390.8
62.5°	444.7	373.8	338.8	333.8	343.7
65°	379.8	316.8	274.9	293.8	303.8
67.5°	326.8	270.8	225.8	265.8	271.8
70°	277.9	235.8	190.9	244.8	245.9
72.5°	232.9	207.9	163.9	221.9	225.8
75°	201.8	180.9	150.9	197.9	207.9
77.5°	176.9	154.9	138.9	170.9	189.9
80°	150.9	126.9	128.9	143.9	162.9
82.5°	115.9	98.0	101.9	117.9	133.0
85°	80.0	74.0	69.0	86.9	98.0
87.5°	43.0	40.0	35.0	48.9	50.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)