

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: P234063

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

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P234063
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33314)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/12/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-50-A-UNV-L940-CD1-U
Description: METALUX 1X4 GRLED TROFFER
WITH A LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4303.4 lumens
Efficiency: N/A
Efficacy: 95.4 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

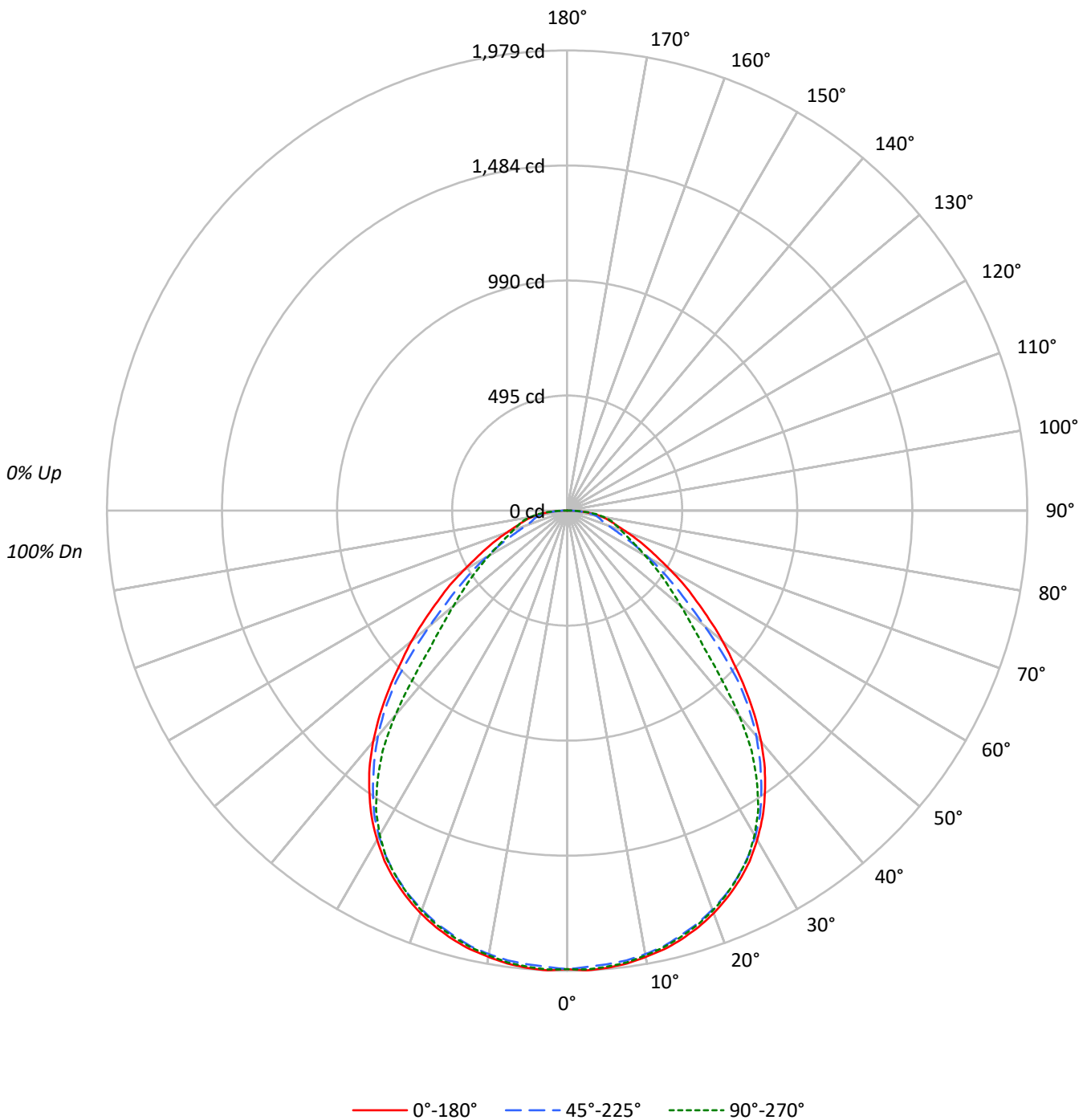
Input Watts (W): 45.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	83	99	92	86	82	88	84	80	85	81	78	82	79	76	74					74			
3	93	84	76	71	91	82	75	70	79	74	69	77	72	68	74	70	66	64					64			
4	86	75	67	61	84	74	67	61	72	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	57	48	43	67	56	48	43	54	47	42	53	47	42	52	46	42	40					40			
8	65	52	44	38	63	51	44	38	50	43	38	49	43	38	48	42	38	36					36			
9	61	48	40	35	59	47	40	35	46	39	35	45	39	35	44	39	34	33					33			
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	36	31	30					30			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6645	6645	6645
5°	6677	6626	6660
10°	6669	6628	6645
15°	6656	6597	6618
20°	6609	6548	6566
25°	6522	6458	6462
30°	6362	6296	6269
35°	6101	5990	5855
40°	5711	5566	5065
45°	5158	4963	3958
50°	4574	4029	3348
55°	3993	3306	2954
60°	3463	2721	2607
65°	3036	2183	2407
70°	2708	1851	2423
75°	2642	1952	2707
80°	2928	2462	3105
85°	3050	2625	3630



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.1	4.3
10°-20°	536.0	12.5
20°-30°	801.8	18.6
30°-40°	905.1	21.0
40°-50°	767.9	17.8
50°-60°	519.5	12.1
60°-70°	310.1	7.2
70°-80°	194.2	4.5
80°-90°	81.7	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°	1524.9	35.4
0°-40°	2430.0	56.5
0°-60°	3717.4	86.4
0°-90°	4303.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4303.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1972	1972	1972	1972	1972	
5°	1974	1968	1959	1973	1969	188
15°	1908	1904	1891	1904	1897	538
25°	1754	1748	1737	1745	1738	807
35°	1483	1473	1456	1443	1423	924
45°	1082	1086	1042	893	831	834
55°	680	648	563	504	503	612
65°	381	316	274	292	302	381
75°	203	181	150	198	208	218
85°	79	75	68	88	94	85
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1972.1	1972.1	1972.1	1972.1	1972.1
2.5°	1979.0	1973.0	1964.1	1976.0	1975.0
5°	1974.0	1968.0	1959.0	1973.0	1969.1
7.5°	1965.0	1960.0	1951.0	1964.1	1960.0
10°	1949.0	1945.1	1937.1	1948.1	1942.1
12.5°	1932.1	1929.1	1919.1	1929.1	1923.0
15°	1908.1	1904.0	1891.1	1904.0	1897.1
17.5°	1878.1	1873.1	1862.1	1873.1	1867.1
20°	1843.1	1837.1	1826.1	1837.1	1831.1
22.5°	1801.1	1796.1	1786.1	1796.1	1788.1
25°	1754.1	1748.1	1737.1	1745.1	1738.1
27.5°	1700.1	1692.1	1682.2	1688.2	1684.1
30°	1635.2	1625.2	1618.2	1618.2	1611.2
32.5°	1564.3	1557.2	1545.2	1538.3	1529.3
35°	1483.2	1473.3	1456.3	1443.3	1423.3
37.5°	1396.3	1384.3	1363.4	1330.3	1303.3
40°	1298.3	1283.4	1265.4	1200.4	1151.5
42.5°	1193.4	1190.4	1159.5	1048.5	980.5
45°	1082.5	1086.4	1041.5	892.6	830.6
47.5°	970.5	984.5	902.6	756.6	724.6
50°	872.6	877.5	768.6	656.7	638.7
52.5°	771.6	763.6	655.7	577.7	564.8
55°	679.7	647.7	562.7	503.8	502.8
57.5°	598.7	539.7	480.7	436.8	441.8
60°	513.8	447.8	403.8	379.8	386.8
62.5°	438.8	375.8	336.9	329.8	341.8
65°	380.8	315.9	273.8	291.9	301.9
67.5°	325.9	270.9	222.9	265.8	269.9
70°	274.9	234.9	187.9	244.8	245.9
72.5°	232.9	207.9	162.9	221.9	224.9
75°	202.9	180.9	149.9	197.9	207.9
77.5°	177.9	154.9	138.9	170.9	187.9
80°	150.9	125.0	126.9	142.9	160.0
82.5°	115.9	96.9	101.0	117.9	129.9
85°	78.9	75.0	67.9	88.0	93.9
87.5°	42.0	40.0	35.0	50.0	47.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)