

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: P234064

Luminaire Tested: **14GR-LD5-50-A-UNV-L950-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P234064
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-L950-CD1-U
Description: METALUX 1X4 GRLED TROFFER
WITH A LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5009.0 lumens
Efficiency: N/A
Efficacy: 111.1 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

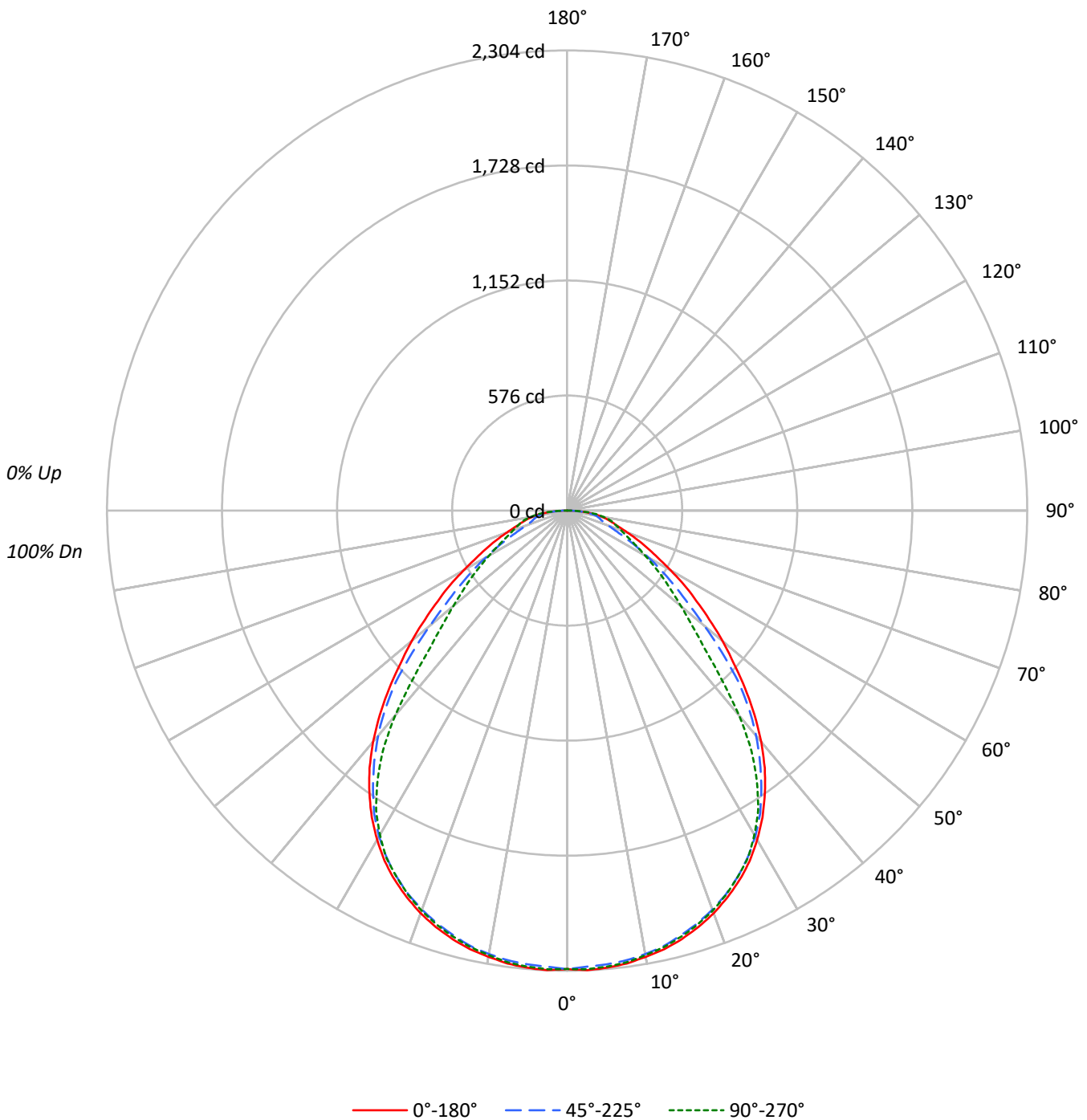
Input Watts (W): 45.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	7735	7735	7735
5°	7772	7713	7752
10°	7762	7714	7734
15°	7747	7678	7703
20°	7692	7622	7642
25°	7591	7517	7522
30°	7405	7328	7297
35°	7102	6973	6815
40°	6647	6478	5895
45°	6004	5776	4607
50°	5324	4690	3897
55°	4647	3848	3438
60°	4030	3167	3035
65°	3534	2542	2802
70°	3153	2155	2820
75°	3074	2272	3151
80°	3407	2868	3613
85°	3553	3058	4230



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	217.8	4.3
10°-20°	623.9	12.5
20°-30°	933.3	18.6
30°-40°	1053.5	21.0
40°-50°	893.7	17.8
50°-60°	604.7	12.1
60°-70°	361.0	7.2
70°-80°	226.0	4.5
80°-90°	95.1	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°	1774.9	35.4
0°-40°	2828.4	56.5
0°-60°	4326.9	86.4
0°-90°	5009.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5009.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2295	2295	2295	2295	2295	
5°	2298	2291	2280	2296	2292	218
15°	2221	2216	2201	2216	2208	626
25°	2042	2035	2022	2031	2023	939
35°	1726	1715	1695	1680	1657	1076
45°	1260	1265	1212	1039	967	971
55°	791	754	655	586	585	713
65°	443	368	319	340	351	443
75°	236	211	174	230	242	254
85°	92	87	79	102	109	99
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2295.4	2295.4	2295.4	2295.4	2295.4
2.5°	2303.5	2296.5	2286.0	2300.0	2298.8
5°	2297.7	2290.7	2280.2	2296.5	2291.8
7.5°	2287.2	2281.4	2270.9	2286.0	2281.4
10°	2268.6	2263.9	2254.6	2267.4	2260.4
12.5°	2248.8	2245.3	2233.7	2245.3	2238.3
15°	2220.9	2216.2	2201.1	2216.2	2208.1
17.5°	2186.0	2180.2	2167.3	2180.2	2173.2
20°	2145.2	2138.3	2125.5	2138.3	2131.3
22.5°	2096.4	2090.6	2079.0	2090.6	2081.3
25°	2041.8	2034.8	2021.9	2031.3	2023.1
27.5°	1978.9	1969.6	1958.0	1965.0	1960.3
30°	1903.3	1891.6	1883.5	1883.5	1875.3
32.5°	1820.7	1812.5	1798.6	1790.4	1780.0
35°	1726.5	1714.8	1695.1	1680.0	1656.7
37.5°	1625.3	1611.2	1586.9	1548.5	1517.1
40°	1511.2	1493.8	1472.8	1397.2	1340.2
42.5°	1389.1	1385.6	1349.5	1220.4	1141.2
45°	1259.9	1264.6	1212.2	1038.9	966.8
47.5°	1129.7	1146.0	1050.5	880.7	843.5
50°	1015.7	1021.5	894.6	764.3	743.4
52.5°	898.2	888.8	763.2	672.4	657.3
55°	791.1	753.8	655.0	586.3	585.2
57.5°	696.9	628.3	559.6	508.4	514.2
60°	598.0	521.2	470.0	442.1	450.3
62.5°	510.7	437.4	392.0	383.9	397.9
65°	443.3	367.6	318.8	339.7	351.4
67.5°	379.3	315.3	259.4	309.5	314.1
70°	320.0	273.4	218.7	285.0	286.2
72.5°	271.1	242.0	189.6	258.3	261.7
75°	236.1	210.6	174.5	230.3	242.0
77.5°	207.1	180.4	161.7	198.9	218.7
80°	175.6	145.4	147.8	166.3	186.2
82.5°	135.0	112.8	117.5	137.3	151.2
85°	91.9	87.3	79.1	102.4	109.4
87.5°	48.9	46.5	40.7	58.1	54.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)