

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: P213624

Luminaire Tested: **14GR-LD5-40-A19/156-UNV-L950-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P213624
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33288)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/12/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-40-A19/156-UNV-L950-CD1-U
Description: METALUX GR 1X4 LED TROFFER WITH A19/156 LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3948.5 lumens
Efficiency: N/A
Efficacy: 101.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.23 / 1.18
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

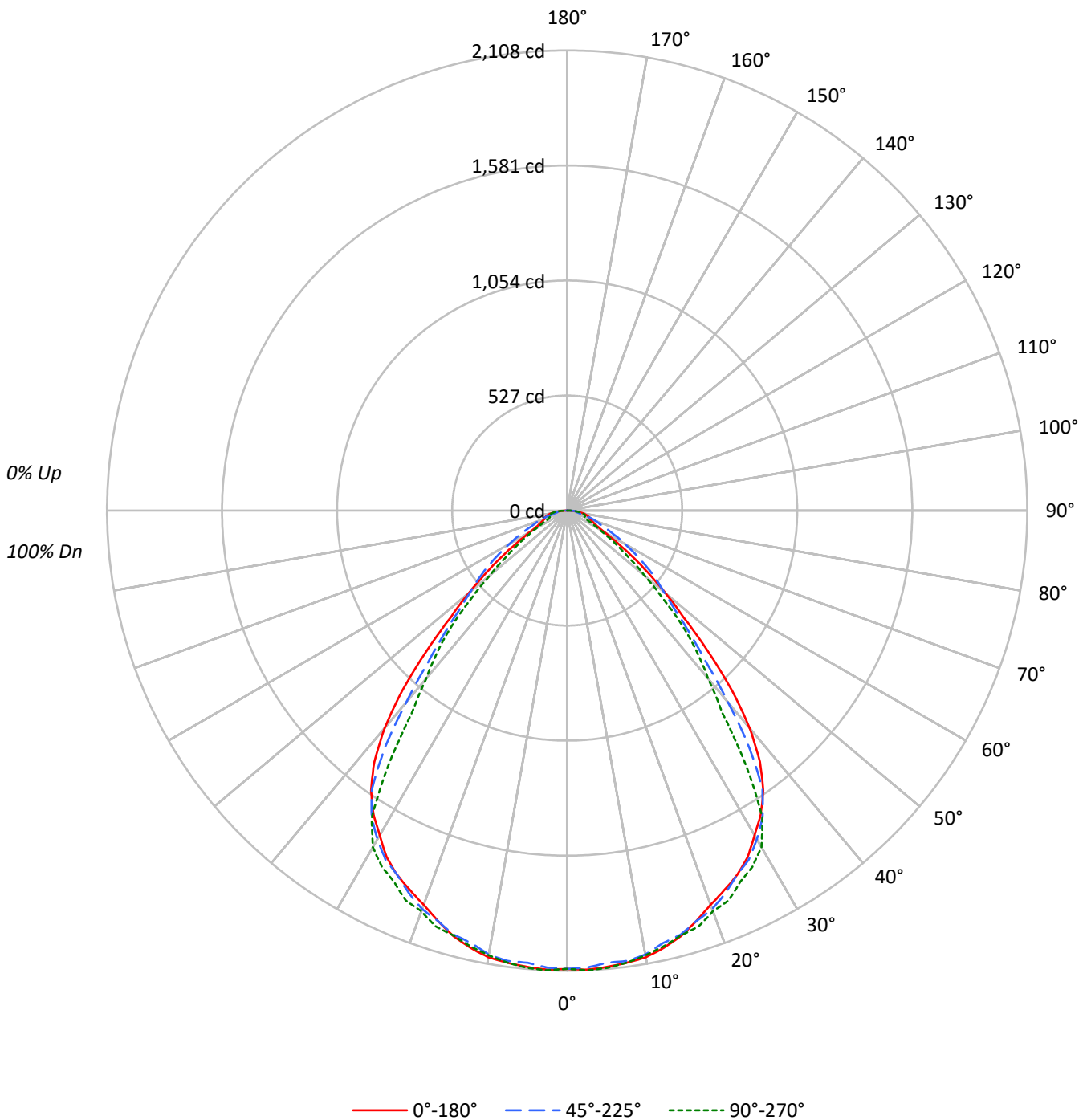
Input Watts (W): 38.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	107	104	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88					88			
2	103	96	90	86	100	94	89	85	91	87	83	88	84	81	85	82	79	77					77			
3	95	87	80	74	93	85	79	74	82	77	73	80	75	71	77	73	70	68					68			
4	89	79	71	65	87	77	70	65	75	69	64	73	68	63	71	66	63	61					61			
5	83	71	64	58	81	70	63	58	68	62	57	67	61	57	65	60	56	54					54			
6	77	65	58	52	75	64	57	52	63	56	51	61	55	51	60	55	51	49					49			
7	72	60	52	47	70	59	52	47	58	51	46	56	51	46	55	50	46	44					44			
8	67	55	48	43	66	55	47	42	53	47	42	52	46	42	51	46	42	40					40			
9	63	51	44	39	62	51	44	39	50	43	39	49	43	38	48	42	38	37					37			
10	60	48	40	36	58	47	40	36	46	40	35	45	39	35	44	39	35	34					34			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7075	7075	7075
5°	7099	7032	7114
10°	7110	7067	7079
15°	7038	7012	7028
20°	6891	6965	7004
25°	6848	6845	6976
30°	6682	6763	6928
35°	6443	6417	5897
40°	5721	5049	4421
45°	4342	3777	3575
50°	3080	3023	2426
55°	2108	2581	1667
60°	1304	2059	1115
65°	1074	1585	807
70°	1069	1380	829
75°	1284	988	1107
80°	1473	912	1385
85°	1396	1608	1574



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.2	5.0
10°-20°	568.6	14.4
20°-30°	855.1	21.7
30°-40°	932.2	23.6
40°-50°	652.7	16.5
50°-60°	369.5	9.4
60°-70°	202.2	5.1
70°-80°	122.5	3.1
80°-90°	46.5	1.2
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°	1622.9	41.1
0°-40°	2555.1	64.7
0°-60°	3577.3	90.6
0°-90°	3948.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3948.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2100	2100	2100	2100	2100	
5°	2099	2095	2079	2103	2103	200
15°	2017	2012	2010	2039	2015	567
25°	1842	1846	1841	1884	1876	846
35°	1566	1559	1560	1480	1434	965
45°	911	951	793	783	750	708
55°	359	429	439	436	284	328
65°	135	221	199	251	101	138
75°	99	142	76	149	85	102
85°	36	59	42	51	41	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2099.6	2099.6	2099.6	2099.6	2099.6
2.5°	2105.1	2102.4	2096.0	2108.7	2107.8
5°	2098.7	2095.1	2078.9	2103.3	2103.3
7.5°	2089.7	2080.7	2081.5	2095.1	2088.8
10°	2078.0	2062.6	2065.3	2068.9	2068.9
12.5°	2050.9	2036.4	2029.1	2040.9	2044.5
15°	2017.4	2012.0	2010.2	2039.1	2014.6
17.5°	1970.4	1982.2	1971.3	1994.8	1998.5
20°	1921.6	1944.2	1942.4	1958.7	1953.2
22.5°	1881.8	1896.3	1896.3	1916.2	1932.5
25°	1842.0	1845.7	1841.1	1883.6	1876.4
27.5°	1790.5	1787.8	1802.3	1824.0	1838.5
30°	1717.4	1718.3	1738.1	1767.0	1780.6
32.5°	1650.5	1642.3	1666.7	1679.4	1664.9
35°	1566.4	1559.2	1560.0	1480.5	1433.5
37.5°	1451.6	1457.9	1374.7	1229.2	1167.8
40°	1300.7	1313.3	1147.9	1039.4	1005.1
42.5°	1118.0	1121.7	940.9	905.6	883.1
45°	911.1	950.9	792.7	782.8	750.2
47.5°	722.2	796.3	664.3	670.7	593.0
50°	587.5	661.7	576.7	579.4	462.7
52.5°	464.6	536.9	508.9	500.8	363.4
55°	358.8	429.3	439.3	435.6	283.8
57.5°	263.9	339.9	368.7	382.3	218.8
60°	193.5	277.5	305.5	332.6	165.4
62.5°	153.7	240.4	250.3	290.1	128.3
65°	134.7	221.4	198.8	251.3	101.2
67.5°	120.2	210.6	161.8	222.3	88.5
70°	108.5	189.8	140.1	198.8	84.1
72.5°	108.5	166.3	110.3	176.3	85.0
75°	98.6	141.9	75.9	149.1	85.0
77.5°	87.6	121.1	57.0	121.1	79.5
80°	75.9	94.9	47.0	93.1	71.4
82.5°	56.1	71.4	40.7	69.6	57.9
85°	36.1	58.8	41.6	50.6	40.7
87.5°	17.2	29.8	26.2	25.3	20.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)