

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: P238946

Luminaire Tested: **24ENA-LD2-67-UNV-L835-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238946
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1708-234-34)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24ENA-LD2-67-UNV-L835-CD1-U
Description: METALUX ENCOUNTER 2X4 LED TROFFER
AIR-VENTED OPTION
Light Source: (308)3500K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6562.7 lumens
Efficiency: N/A
Efficacy: 117.0 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.29 / 1.4
Luminous Opening: Rectangular (W 1.67' x L: 3.83' x H: 0')
CIE Type: Direct

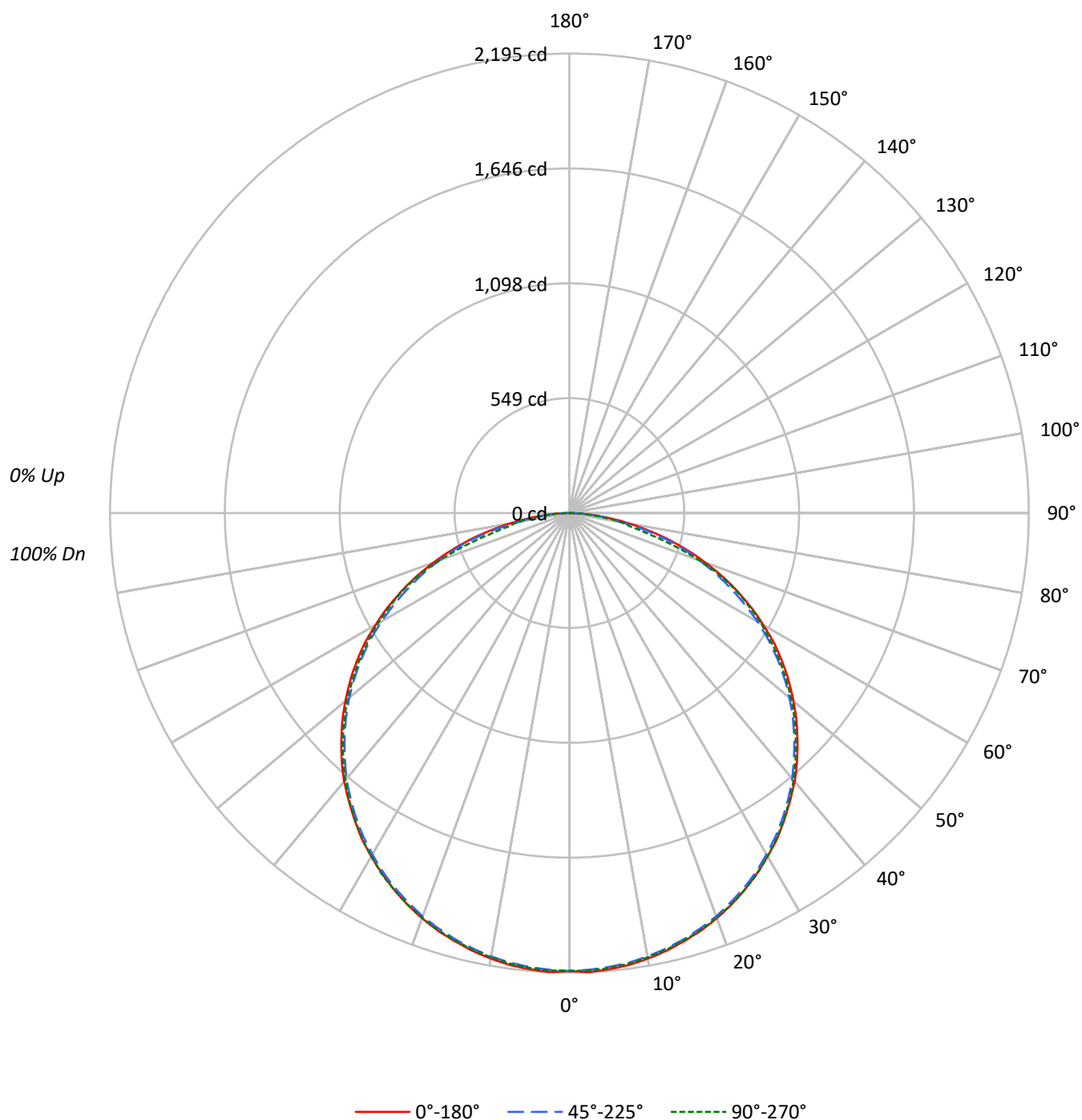
Input Watts (W): 56.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	109	104	99	95	106	101	97	94		97	94	91		93	90	88		90	87	85
2	98	90	83	77	96	88	82	76		84	79	74		81	77	73		78	74	71
3	90	79	70	64	87	77	69	63		74	67	62		71	66	61		69	64	60
4	82	70	61	54	79	68	60	53		66	58	53		63	57	52		61	56	51
5	75	62	53	46	73	61	52	46		59	51	45		57	50	45		55	49	44
6	69	56	47	40	67	55	46	40		53	45	40		51	44	39		50	44	39
7	64	50	42	35	62	50	41	35		48	40	35		47	40	35		45	39	34
8	60	46	37	31	58	45	37	31		44	36	31		43	36	31		41	35	31
9	56	42	34	28	54	42	34	28		40	33	28		39	33	28		38	32	28
10	52	39	31	26	51	38	31	25		37	30	25		36	30	25		35	29	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3685	3685	3685
5°	3699	3680	3690
10°	3697	3678	3688
15°	3693	3676	3686
20°	3693	3675	3688
25°	3688	3671	3688
30°	3684	3663	3684
35°	3680	3655	3675
40°	3682	3643	3664
45°	3672	3620	3646
50°	3662	3598	3630
55°	3649	3561	3597
60°	3604	3493	3567
65°	3531	3384	3509
70°	3404	3262	3256
75°	3205	3061	2589
80°	2820	2395	2461
85°	2227	2094	1935



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	207.2	3.2
10°-20°	595.8	9.1
20°-30°	911.6	13.9
30°-40°	1114.3	17.0
40°-50°	1177.5	17.9
50°-60°	1091.0	16.6
60°-70°	854.8	13.0
70°-80°	483.2	7.4
80°-90°	127.2	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°	1714.6	26.1
0°-40°	2828.9	43.1
0°-60°	5097.5	77.7
0°-90°	6562.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6562.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2187	2187	2187	2187	2187	
5°	2187	2180	2176	2175	2182	208
15°	2117	2109	2108	2106	2113	598
25°	1984	1976	1974	1974	1984	915
35°	1789	1781	1777	1777	1787	1120
45°	1541	1530	1519	1519	1530	1189
55°	1242	1229	1212	1215	1224	1109
65°	886	869	849	860	880	876
75°	492	479	470	420	398	518
85°	115	108	108	103	100	136
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2187.1	2187.1	2187.1	2187.1	2187.1
2.5°	2195.3	2185.7	2183.0	2180.2	2187.1
5°	2187.1	2180.2	2176.1	2174.7	2181.6
7.5°	2177.5	2169.3	2166.5	2163.8	2170.6
10°	2161.0	2152.8	2150.1	2148.7	2155.5
12.5°	2141.8	2132.2	2130.9	2129.5	2136.4
15°	2117.2	2108.9	2107.6	2106.2	2113.0
17.5°	2091.1	2082.9	2080.1	2078.8	2088.4
20°	2059.6	2051.3	2050.0	2048.6	2056.8
22.5°	2023.9	2015.7	2012.9	2014.3	2022.5
25°	1984.1	1975.9	1974.5	1974.5	1984.1
27.5°	1940.3	1932.0	1932.0	1932.0	1943.0
30°	1893.6	1886.8	1882.7	1884.0	1893.6
32.5°	1845.7	1834.7	1831.9	1833.3	1842.9
35°	1789.4	1781.2	1777.1	1777.1	1786.7
37.5°	1731.8	1723.6	1718.1	1718.1	1727.7
40°	1674.3	1661.9	1656.4	1653.7	1666.0
42.5°	1609.8	1600.2	1587.9	1587.9	1598.8
45°	1541.2	1530.3	1519.3	1519.3	1530.3
47.5°	1471.3	1460.3	1448.0	1448.0	1459.0
50°	1397.3	1386.3	1372.6	1372.6	1384.9
52.5°	1321.9	1309.5	1294.4	1293.1	1305.4
55°	1242.3	1228.6	1212.2	1214.9	1224.5
57.5°	1161.4	1143.6	1127.1	1127.1	1142.2
60°	1069.5	1054.5	1036.6	1039.4	1058.6
62.5°	981.8	962.6	944.8	951.6	968.1
65°	885.8	869.3	848.8	859.8	880.3
67.5°	791.2	773.4	756.9	770.6	780.2
70°	691.1	674.6	662.3	662.3	660.9
72.5°	591.0	575.9	573.2	547.1	530.7
75°	492.3	478.6	470.3	419.6	397.7
77.5°	389.4	385.3	359.3	305.8	298.9
80°	290.7	293.4	246.8	248.2	253.7
82.5°	200.2	196.1	185.1	176.9	174.1
85°	115.2	108.3	108.3	102.8	100.1
87.5°	38.4	42.5	42.5	42.5	43.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)